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PROBLEMS
IN
TEACHING LEADING



PROBLEMS IN TROOP LEADING

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PROBLEMS IN TROOP LEADING

AN INFANTRY DIVISION

Prepared by
DEPARTMENT OF MILITARY ART

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Introduction

IN the following pages, an attempt has been made to outline the troop leading of an infantry division as part of a field army in attack and in defense.

Part I deals with the offensive. The situations from 1 to 20 constituted five troop leading problems solved by the Line Class in the Spring of 1913. They have been re-written, in minor particulars, to conform to the changes in organization and regulations since that time. For the convenience of those desiring to make a systematic study of the text, the original requirement for each situation and a statement of time allotted for its solution are given. To complete the sketch of the work of the division during the day under consideration, short studies of the leading of artillery units have been interpolated as situations sub A; and, after the 20th numbered situation, there has been added a study of the main actions and incidents to the close of the day, including a description of the ammunition and ration supply, sanitary and provost arrangements.

Part II takes a division on the defensive. Its situations constituted a series of seven troop leading problems solved by the Line Class in the Spring of 1915, amplified by the addition of a study of the leading of the artillery brigade.

Both parts are for use primarily as texts for the Line Class; and the length of the subject has been fitted to the time allotted in the course for conference. No attempt, consequently, has been made at an exhaustive study; simply enough is presented to furnish a somewhat sketchy picture of the manner in which a division and its members, as part of a considerable force, might be handled in the two main forms of tactics, the attack and the defense.

The situations and solutions are the work of a number of instructors of the Department of Military Art. The name of the responsible officer immediately precedes his work.

Valuable criticism and suggestions have been received from the remaining members of the Department and from Lieutenant Moreno of the Department of Languages.

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WESTMINSTER
See Gettysburg General Map

UNION MILLS
See Gettysburg General Map

Part I The Offensive

A MARCH FORWARD

(CAPTAIN FISKE)

Situation No. 1

A Blue field army of three divisions is moving northward, in hostile territory, to attack Red forces, known to be assembling for the protection of Gettysburg.

On the night of September 1-2, 1915, the 1st, 2d, and 3d Divisions are, respectively, about Union Mills (one inch map), Taneytown, and Bridgeport. The 1st Division camps with its three infantry brigades north of Pipe Creek: the 3d Brigade (less one regiment) east of Union Mills; the 2d, west of Union Mills to the first stream joining Pipe Creek from the north; the 1st, west of that stream. The Artillery Brigade, with engineers, signal troops, and ambulance companies attached, is south of the 2d and 3d Infantry Brigades; the 1st Cavalry, west of the artillery. The 9th Infantry is outposting the line village of Silver Run—Cherry Grove School. The trains are north of Westminster.

The 1st Division receives at midnight the following orders from Army Headquarters:

Reports indicate that the enemy has about two divisions, and intends to give battle in a position extending eastward from TWO TAVERNS. The army will advance to attack tomorrow, the 2d instant. The 1st Division, moving by LITTLESTOWN, will locate and attack the hostile left. The 2d and 3d Divisions advance against the portion of the enemy's position west of ALLOWAY CREEK.

Company A, 9th Infantry, and Troop A, 1st Cavalry, are permanently detailed as military police and train guard. Troop E, 1st Cavalry, is detailed for one week with division headquarters. Except one platoon, which is General A's personal escort, this troop is available for duty with security detachments.

No orders for September 2d have yet been issued.

Required:

Orders of the commanding general, 1st Division, to the time of marching.

(Time for solution, two hours)

Situation No. 2

General A, commanding the 1st Division, issues orders as follows: Verbally, to the colonel, 1st Cavalry, at 12-30 A. M.:

12-30 A. M.

Reports indicate that the enemy has about two divisions, and intends to give battle in a position extending eastward from Two Taverns. Our army advances today to attack; the 2d and 3d Divisions against the portions of the hostile front west of Alloway Creek. This Division marches on Littlestown. You will clear Union Mills by 4-45 A. M., and will determine the enemy's positions east of Alloway Creek. It is particularly important to locate his left. Let me have reports on the Baltimore Turnpike, south of Littlestown, by 8-30 A. M. Leave one troop for our advance guard.

To an aid, at 12-40 A. M.:

12-40 A. M.

The army is advancing to attack the enemy, who is reported to be in position east of Two Taverns. This Division marches on Littlestown; the 2d Division marches to cross the Baltimore Pike west of Alloway Creek. You will take ten men from the headquarters troop and join the 2d Division in Taneytown by daybreak. Remain with the headquarters of that division today as information officer.

1st Div.,
UNION MILLS,
2 Sept., 15, 12-45 A. M.

Field Orders,
No. 3.

1. Troops will be ready to march today as follows:
1st Brig., 1st Bn. 1st L. A., Co. A and mtd. sec. Co. B, Engrs., and 1st Amb. Co., at 4-40 A. M.
2d Brig., 1st Brig F. A. (less 1 bn.), 1st Bn. Sig., at 6-20 A. M.
3d Brig. (less 9th Inf.), 1st Bn. Engrs. (less 1 co.) and Amb. Cos. (less 1 co.), at 7-00 A. M.
2. Outpost troops will remain in position until further orders.
3. Orders will be issued at 4-00 A. M.

12-45 A. M.

A,
Maj. Gen.

By messenger to several headquarters; by telephone to outpost.

1st Div.,
UNION MILLS,
2 Sept., 15, 4-00 A. M.

Field Orders.

No. 4.

Geo. Sur. Map-1/62300.

Troops

(a) Independent Cavalry:

Col. B.

1st Cav. (less 3 trs.)

Mtd. sec. Co. B, Engrs.

(b) Advance Guard:

Brig. Gen. C.

1st Brig.

1st Bn., 1st L. A.

Tr. I and 1/2 Tr. E.

1st Cav.

Co. A, Engrs.

1st Amb. Co.

(c) Main Body—in order
of march:

Plat. Tr. E, 1st Cav.

1st Bn. Sig. (less detachs.)

2d Brig. (less 2 regts.)

1st Brig. F. A. (less 1 bn.

and c. tns.)

Remainder 2d Brig.

3d Brig.

1st Bn. Engrs. (less 1 co.

& mtd. detach. Co. B.)

C. Tns. art.

Amb. Cos. (less 1 co.)

1. The enemy is reported to have about two divisions, and to be in position northwest of LITTLESTOWN. Our army marches to attack today; the 2d and 3d Divisions against the portions of the hostile front west of ALLOWAY CREEK.

2. This Division will march on LITTLESTOWN.

3. (a) The Independent Cavalry will clear UNION MILLS by 4-45 A. M., and will locate the enemy's positions east of ALLOWAY CREEK.

(b) The Advance Guard will clear the stream crossing near the northwest exit of UNION MILLS, at 6-00 A. M., marching thence by the BALTIMORE and GETTYSBURG TURNPIKE.

(c) The Main Body will start from the same crossing, northwest of UNION MILLS, at 6-20 A. M., and will follow the Advance Guard at one mile.

(d) The Outpost will close in to the TURNPIKE when the support of the Advance Guard passes the line of resistance, and will take its place in column.

4. At 9-00 A. M., the division trains, ammunition leading, will follow the troops. Field trains will join the division trains at UNION MILLS.

5. Messages to the reserve of the advance guard.

A,
Maj. Gen.

Copies to officers detailed to receive; by messenger to commander trains.

Situation No. 2-A

(CAPTAIN SCOTT)

Field Orders No. 3 is received by the Adjutant, 1st F. A. Brig., at 1-00 A. M., Sept. 2, 1915.

Required:

His action.

Major K sends the following memorandum:

4-00 A. M.

PROBLEMS IN TROOP LEADING

1st F. A. Brig.,

UNION MILLS,

2 Sept., 15, 1-05 A. M.

1. 1st Bn. 1st L. A. marches at 4-40 A. M. Advance Guard, Gen. C.

2. Brig. (less 1st Bn. 1st L. A.) marches at 6-20 A. M. Orders at 5-00 A. M.

3. Two scouts 2d L. A. report to Lt. X, Aid, at 4-00 A. M.

By command, Gen. E:

K,

Brig. Adj.

By messenger to commanding officers, 1st L. A., 1st Bn. 1st L. A., and 2d L. A.

Verbally to Lt. X, Aid:

While at headquarters I was informed that the enemy has two divisions, and intends to fight in a position extending east from Two Taverns. Our army attacks, the 2d and 3d Divisions west of Alloway Creek, our division east of that creek.

Our cavalry clears Union Mills at 4-45 A. M., and goes to determine the hostile position east of Alloway Creek.

The General has directed that in the event of such a move, you are to accompany the cavalry as information officer. Take two orderlies and two scouts of the 2d L. A., who will report to you at 4-00 A. M.

Orders issued at division headquarters at 4-00 A. M. Join me there to get oriented.

Field Orders No. 4 is received by Major K at 4-00 A. M.

Required:

Orders of General E, commanding 1st Field Artillery Brigade.

General E issues the following orders:

1st F. A. Brig.,

UNION MILLS,

2 Sept., 15, 5-00 A. M.

Field Orders.

No. 4.

Geo. Sur. Map, $\frac{1}{62500}$.

1. The enemy is reported to have about two divisions, and to be in position northwest of LITTLESTOWN. Our army marches to attack today, the 2d and 3d Divisions west of ALLOWAY CREEK; this division marches on LITTLESTOWN. Our cavalry cleared UNION MILLS at 4-45 A. M.; our advance guard clears the stream crossing northwest of UNION MILLS at 6-00 A. M.

2. Brigade (less 1st Bn. 1st L. A. and C. Tns.) follows leading regiment of 2d Brig. March from camp at 6-20 A. M. Order of march,—1st L. A., 2d L. A.

Regimental reconnaissance parties will march at the head of the brigade.

Combat trains, under Lt. Col. H. will follow the Engrs. at the tail of the main body.

3. F. Tns. wait orders of Commander of Tns.

4. Messages to reserve of advance guard.

E.

Brig. Gen.

Copies to regt. and bn. comdrs.

(CAPTAIN FISK.)

Based upon the march order of the division.

Required:

Orders, commander, advance guard.

(Time for solution, one hour)

Situation No. 3

The advance guard commander issues orders as follows:

Advance Guard, 1st Div.,
UNION MILLS,
2 Sept. 15, 4-30 A. M.

Field Orders,

No. 1.

1-inch Geological.

1. The enemy is reported to have about two divisions, and to be in position northwest of LITTLESTOWN. Our army marches to attack today; the 2d and 3d Divisions against the portion of the hostile front west of ALLOWAY CREEK. Our division marches on LITTLESTOWN. The 1st Cav. clears UNION MILLS by 4-45 A. M., and locates the enemy east of ALLOWAY CREEK.

2. This command constitutes the advance guard of the division.

(a) Support:

Col. D.

1st Inf. (less 1 bn.)

Plat. Tr. E, 1st Cav.

Co. A, Engrs. (less detach.)

(b) Reserve—in order of march:

Plat. Tr. E, 1st Cav.

3d Bn. 1st Inf.

1st Bn. 1st L. A. (less c. tns.)

3d Inf.

Art. c. tns.

1st Amb. Co.

(c) Right Flank Guard:

Col. E.

4-30 A. M.

PROBLEMS IN TROOP LEADING

2d Inf.
Tr. I, 1st Cav.
Detch. Engrs.

3. (a) The Support, clearing the stream crossing near the northwest exit of UNION MILLS, at 5-20 A. M., will march by the BALTIMORE and GETTYSBURG TURNPIKE.

(b) The Reserve, starting from the same stream crossing, at 5-30 A. M., will follow the Support at one half mile.

(c) The Right Flank Guard will clear that stream crossing by 5-00 A. M., and will march by 622—768—743 (road irregularly one mile east of the TURNPIKE.)

4. The field trains of the advance guard will assemble in the camp of the 1st Brigade, under Captain K, (Q. M.) 3d Inf., as soon as the division clears UNION MILLS, and will join the division trains when the latter come up.

1st Amb. Co. will send two ambulances with the Flank Guard.

5. Messages to the support.

C,
Brig. Gen.

Dictated to officers detailed to receive.

Situation No. 3-A

(CAPTAIN SCOTT)

Required:

Actions and orders of Major C, 1st L. A., commanding 1st Bn., 1st L. A.

Major C receives the advance guard order at 4-30 A. M., assembles his officers and reads it to them, adding:

The battalion will march at 5-25, by the road east of the stream.

Order of march: A, B, C.

Combat trains follow the infantry of the reserve.

Lieutenant C (R. O. Btry. C) with two scouts will report to the flank guard commander at 5-00 A. M. as information officer.

Other battery reconnaissance officers, with two scouts each, will report to me here at 5-00 A. M.

Messages to the support.

(CAPTAIN FISKE)

Required:

Orders of the support commander.

(Time for solution, one hour)

Situation No. 4

The support commander issues verbal orders, at 4-40

A. M., to his majors, staff, commanding officers Co. A. Engrs., Machine Gun Company, and platoon of cavalry, as follows:

The enemy is reported to be about two divisions strong, and to have taken position northwest of Littlestown. Our army marches to attack today; the 2d Division, which is nearest to us, from Taneytown to strike the Baltimore Pike west of Alloway Creek. Our division marches on Littlestown. The 1st Cavalry starts immediately to locate the hostile positions east of Alloway Creek. Our brigade and a battalion of artillery form the advance guard of the division. The 2d Infantry marches as a flank guard by 622—768—743 (the road roughly paralleling the Baltimore Pike and about a mile east of it). The 9th Infantry is outposting the line, village of Silver Run—Cherry Grove School.

4-40 A. M.

This Regiment (less 3d Battalion), Company A, Engineers, and a platoon of cavalry, constitute the support. The 3d Battalion, marching at the head of the reserve, follows the support at one half mile.

Company A, Platoon Troop B, 1st Cavalry, and a detachment of engineers will form the advance party. It will march by the Baltimore and Gettysburg Turnpike, preceding the remainder of the support by 500 yards.

The support proper will follow in the order: 1st Battalion (less Company A), Machine Gun Company, 2d Battalion, Company A, Engineers (less detachments) and Band.

The field train will be reported to Captain K, 3d Infantry, as soon as the brigade clears camp.

Messages to the head of the support proper.

Form the regiment, except the 3d Battalion, at 4-55 A. M.

At 4-55 A. M., the colonel marches his regiment (less 1 bn.) to a position on the Baltimore Pike, with the tail of the column at the designated stream, and halts the command. The engineers join. The colonel directs the commander of the advance party:

4-55 A. M.

Get your distance, Captain E, and await my signal to take up the march.

At 5-20 A. M., the colonel signals, Forward, March.

5-20 A. M.

Based upon the advance guard order,

Required:

Orders of the flank guard commander.

(Time for solution, one hour)

Situation No. 5

The commander of the right flank guard issues verbal

orders, at 4-35 A. M., to his majors, staff, commanders Machine Gun Company and Troop B, 1st Cavalry, as follows:

The enemy is reported to be about two divisions strong, and in position northwest of Littlestown. Our army marches to attack today. Our division moves via Littlestown. The 1st Cavalry is preceding the advance guard to locate the enemy. Our brigade and a battalion of artillery constitute the advance guard. The 1st Infantry is the support and marches by the Baltimore—Gettysburg Turnpike. This Regiment marches as a Right Flank Guard by 622—768—743.

Troop I will precede the advance guard of this Regiment by not more than two miles. It will reconnoiter from the Hanover Road, inclusive, to the 622—768—743—733 road, inclusive, and will observe this area during the passage of the division. It will send one platoon to join the advance guard.

The 1st Battalion, Machine Gun Company, detachment engineers, and Platoon Troop I, will constitute our advance guard.

The main body of the Regiment, in the order: 2d Battalion, 3d Battalion, Band, and ambulances, will follow at 800 yards.

The field train will be reported to Captain K, 3d Infantry, as soon as the brigade clears camp.

Messages to the advance guard.

Form the Regiment at 4-45 A. M.

The colonel marches the regiment in one body along the designated road until the head of the column is approaching the outpost line, halts it, and directs the commander of the advance guard:

Form your advance guard and, as soon as you are ready, take up the march.

Required:

1. Orders, commander of the advance party of the support.
2. Orders, commander of advance guard, right flank guard.

(Time for solution, two hours)

Situation No. 6

1. The commander of the advance party forms his company at 4-48 A. M., the cavalry reports, and he issues orders as follows:

Our army is advancing to attack the enemy, who is reported to have only two divisions, and to have occupied a position northwest of Littlestown. Our division marches on Littlestown today. The

2d Division is next on our left, and is marching today from Taneytown to cross the Baltimore Pike west of Alloway Creek. The 1st Cavalry is moving ahead of us to locate the enemy. Our brigade, with some artillery, is the advance guard of the division. Two battalions of our regiment and a company of engineers form the support. The 2d Infantry marches as a right flank guard by a road running generally about a mile east of our route. The 9th Infantry has an outpost line a mile or so to the north.

4-48 A. M.

This Company, the cavalry, and a detachment of engineers, constitute the advance party, marching by the Baltimore—Gettysburg Turnpike. We precede the remainder of the regiment by 500 yards.

Lieutenant Y (commanding platoon of cavalry), go ahead at once with four troopers as the mounted point. After passing the outpost, so regulate your gait as to precede the dismounted point by half a mile to a mile.

Direct the sergeant and the rest of your men to ride with me between the dismounted point and the company. Divide them into five patrols. I will personally order all lateral patrolling, both mounted and dismounted.

Lieutenant L and the 1st Platoon (four squads), as the dismounted point, will precede the rest of the advance party by 400 yards.

Sergeant K will march at the rear of the advance party to transmit signals from the remainder of the regiment.

The dismounted point will remain with the company until further orders.

The captain then causes his lieutenant to march the company, in the regiment, to the designated stream crossing, while he himself, mounted on the horse of a battalion orderly, goes ahead with the cavalry to the crossing.

When the colonel directs the captain to get his distance, he causes the advance party to move 500 yards down the road, and sends the point immediately on, to gain its 400 yards. The engineers, upon joining, are directed to follow the company.

2. The commander of the advance guard of the right flank guard issues verbal orders, at 5-15 A. M., to his captains, staff, commanders Machine Gun Company, detachment of engineers, and cavalry, as follows:

Our army is advancing to attack the enemy, who is reported to have only two divisions and to be awaiting us in a position north-west of Littlestown. Our division marches on Littlestown today. The 1st Cavalry is preceding the advance guard to locate the enemy. Our brigade, with a battalion of artillery, constitutes the advance guard of the division. The 1st Infantry marches as support on the Baltimore Pike; this regiment as a right flank guard by the 622—768—743 road. The 9th Infantry outposts are just ahead of us. The greater part of Troop I is preceding our battalion as advance cavalry.

5-15 A. M.

This command is the advance guard of the regiment.

Company A, Platoon Troop I, and the detachment of engineers

will constitute the support, preceding the reserve by 600 yards.

Companies B, C, D, and the machine guns will follow in the order named.

Messages to the head of the reserve.

Required:

A statement of patrols sent out by the advance party of the 1st Infantry, and their routes between Silver Run and the stream two and a half miles northwest thereof, assuming an uninterrupted march to the latter stream.

(Time for solution, one hour)

Situation No. 7

Patrols were sent out as follows:

To right of road—

(1) Three cavalymen, starting at 587 (3-inch map), via 593—586 and unimproved road west of knolls 764 and 787, to 727.

(2) Three cavalymen, starting at 727, to farm road 400 yards east, by that road 400 yards northeast to farm house; across country towards knoll 742 to starting point of second farm road; thence north by this farm road and west by cross road to the turnpike near 629.

(3) Four infantrymen, starting from the turnpike at a point 200 yards south of 589, to hill 744.

(4) Four infantrymen, starting from the turnpike west of hill 744, through the timber 100 yards out from the road, to come in at bend in road just north of first stream line.

(5) Four infantrymen, starting at 727, to examine the timber to the east and northeast, and to come back to the pike at 741.

(6) Four infantrymen, starting at 741, to proceed north along nose, examining timber along stream lines, and to return to pike 300 yards south of 629.

To left of road—

(7) Three cavalymen, starting at 589, to proceed by country roads west about 1,100 yards, thence north, to return to pike 100 yards south of 727.

(8) Three cavalrymen, starting 100 yards south of 727, by country road generally west to Pleasant Grove S. H., thence half mile west to knoll 744, and to return, west of Pleasant Grove S. H., to pike at 693.

(9) Three cavalrymen, starting at 741, to proceed via knolls 711 and 687, to Georgetown and back to turnpike at 689, last two-thirds mile by unimproved road.

(10) Four infantrymen, starting at 589, to proceed up nose 200 yards west to hill 743.

(11) Four infantrymen, leaving pike 200 yards north of 589, to move through timber 100 yards west of pike, to come in again half mile farther north.

(12) Four infantrymen, leaving pike by country road 300 yards northwest of 727, to go to Pleasant Grove S. H., and to return to pike.

Required:

Orders for Patrols Nos. 1 and 3.

(Time for solution, one hour)

Situation No. 8

Orders for Patrol No. 1:

Captain E to Corporal S:

Take your patrol east on this road about three-quarters of a mile to the first road junction, turn north thereat, and continue north by a country road from a second road junction a quarter mile beyond the first. Come back into the pike about a mile north of this point (587). Take the left hand road at each junction. You have about two miles to go. Time yourself so as to get back to this pike in about twenty minutes. Look for the flank guard from a knoll which lies a couple hundred yards east of your route, and about a mile and a half from here.

The captain hands the corporal a rough sketch of his route.

Orders for Patrol No. 3:

Captain E to Corporal J:

Take three men of your squad and patrol to the top of that high ground to the north (hill 744). Remain there in observation until the 3d Battalion approaches, and then come in to the pike and report

to the major of the 3d Battalion. Remain with the 3d Battalion until the end of the march, then rejoin the company.

(End of solution. Situation No. 7)

Situation No. 8-A—Artillery Reconnaissance

(CAPTAIN SCOTT)

5-30 A. M. The support is marching through the village of Silver Run. The artillery reconnaissance parties are marching ahead of it and behind the parties of the advance guard commander and of the support commander:

Major C addresses the advance guard commander:

General, I wish to reconnoiter near here and to prepare for possible action should an enemy be developed on the other side of the valley.

(Assumed that permission is granted.)

I will leave an agent with you. Please inform me through him when our advance is in possession of the crest.

Corporal X (agent), report to the brigade adjutant. Take Private O with you.

Required:

Actions and orders of Major C.

Major C turns out of column and summons his parties.

I wish the ridge we are on to be reconnoitered for artillery positions, for use in case an enemy is developed across the valley.

Captain D (Bn. Adj.), reconnoiter the immediate vicinity of the village.

Lieutenant A, reconnoiter to the east; Lieutenant B, to the west. Report to me here by 5-50.

Major C leaves an agent at the beginning of the west road to direct messengers, and rides out on that road to just west of the last house, where he has a good view of the valley before him.

By 5-50 A. M., all his officers have reported, the tail of the support is nearing roadfork 589, and a glance at his march scale shows that the advance party must be on or beyond the ridge. Patrols have been seen on the ridge. Being satisfied that the advance is in peaceable possession of the ridge, Major C decides to cross without waiting to hear from General C.

Reconnaissance will now be made of the crest north of the valley. Captain D, reconnoiter between the main road and Pleasant Grove S. H. Lieutenant B, from Pleasant Grove S. H. west one half mile. Proceed by the road that runs west about 400 yards north of the stream. Lieutenant A, from the main road east one half mile. Proceed by the road that runs east just south of the stream. Send road reports to me as soon as possible. Reconnaissance reports by 6-30 A. M.

I will be on the main road where it crosses the ridge.

A March Outpost

(CAPTAIN FISKE)

When the dismounted point, at 6-05 A. M., reaches the unimproved road 300 yards northwest of 727, a fifteen-minute halt is ordered. No enemy has yet been reported. 6-05 A. M.

Required:

Dispositions of the support, including those of its advance party.

(Time for solution, one hour)

Situation No. 9

Captain E directs the 2d Platoon to reinforce the point; the reinforced point to continue the march to knoll 741. All dismounted patrols have been sent from the point, which by this time is considerably reduced in strength. The remainder of the company halts at the crest 200 yards south of 727, holds two squads on the alert at that point, sends one squad to knoll 787, 800 yards east, and another to the road junction 400 yards west. Patrol No. 12 is directed to remain on the crest between Pleasant Grove S. H. and the turnpike until the column resumes its march. Patrol No. 9 remains on knoll 711 until the column is seen to be in march. Lieutenant Z holds the reinforced point on the alert north of 741 and sends four men forward to 693. The captain joins Lieutenant Z. A sergeant is sent with field glasses to the top of the highest building near 741.

The colonel directs the last company to send one squad to hill 722, west of the tail of the regiment. Patrols (Nos.

3 and 10) from the advance party are reported on hills 744 and 743, east and west of the turnpike. One man in each company remains in the road, alert for signals.

AN ADVANCE GUARD ACTION

During the halt, Captain E hears firing to the north, apparently on the ridge 726—724. Shortly after the march is resumed, at 6-20 A. M., Lieutenant Y, who commands the mounted point, comes in rapidly. He reports that his patrol almost ran into a squad of hostile cavalry near the top of the hill north of the stream ahead; and that he saw perhaps a small troop following the squad at three or four hundred yards. The firing, a few moments ago, came from the enemy, and was directed at his patrol as it came back across the stream. Lieutenant Y left the patrol in observation on the nose between the streams south of 629, and came in to report. He has seen nothing of the Blue cavalry.

At 6-30 A. M., Lieutenant Z has deployed the point at 693 and halted. The bulk of Company A should be coming up the hill south of 741. Captain E can see no indications of an enemy on the 726—724 ridge.

Required:

Captain E's orders and arrangements, 6-30—6-40 A. M.

(Time for solution, one hour)

Situation No. 10

Captain E, at 6-30 A. M., directs Lieutenant Y:

Rejoin your patrol, move up stream and locate the hostile left. Three cavalymen (Patrol No. 2) are patrolling the road half mile east of this pike, and should, by this time, be coming in at the stream junction near where your patrol now is. If you meet this patrol, take it with you. I am going to take the company straight down the pike.

To Sergeant X (Troop E):

About a troop of the enemy's cavalry has driven back our mounted point from the ridge (726-724) yonder. Take your patrol to the left. Pick up Corporal K's men who should be on that knoll (711)

a half mile to the west. Go northwest via Georgetown and locate the hostile right. The company moves straight down this pike.

To a cavalryman:

Gallop back to Colonel D. Tell him a hostile troop of cavalry is a mile in front of us behind a branch of Piney Creek. I am taking the company straight down the pike against the enemy, and sending mounted patrols to find his flanks.

Captain E meets the company between 741 and 693 and commands:

As skirmishers, two paces; Guide Right, March.

Arriving on line with the deployed point, Captain E causes the united line to continue the advance towards 629. He sends a combat patrol of 4 men down the nose running northwest from 693, and causes Patrol No. 6 to move down the nose north of 741, across the stream, and on to the high ground southeast of 629.

(End of solution, situation No. 9.)

Upon receiving the orderly's report, Colonel D gallops forward to 693. There he sees Company A, rather widely extended astride the turnpike and in the meadow 700 yards to the north, and watches it become engaged in a hot fire fight with hostile troops on the high ground north of the streams. The remainder of the support halts south of 741.

At 7-00 A. M., this message, from Captain E, is delivered:

Have developed hostile fire from several points along total front 500 yards, east and west of BALTIMORE PIKE. Enemy has at least 200 rifles in action. I have had several casualties. Will hold ground south of northern stream.

7-00 A. M.

Reports have also been received, from the mounted patrols sent out by Captain E, that the enemy has prevented their crossing the stream north of knoll 726, one half mile east of the pike, and between knoll 687 and Georgetown.

Required:

Colonel D's (commanding officer, 1st Inf.) orders and actions.

(Time for solution, one hour)

Situation No. 11

Colonel D's orders:

To major, 1st Battalion, at 7-05 A. M.:

A mounted patrol is near the bare knoll (687) three-quarters of a mile west of us. The 2d Battalion will deploy east of the turnpike.

Deploy your remaining (3) companies west of the turnpike and join Company A in its fire action. Don't stop to issue ammunition but leave your combat wagons, at my disposal, in the draw south of the low knoll (741) south of this point.

To major, 2d Battalion, at 7-15 A. M., on knoll 741:

Company A is deployed astride this road, three-quarters of a mile north of us, and engaged in a hot fire fight with superior hostile forces. The remainder of the 1st Battalion is deploying on Company A's left. Move down this draw to the east and, deploying with your left on Company A's right, take up the fire action. Connect with the 2d Infantry which should be about a mile to our right. Some of our cavalrymen are in the neighborhood of the wooded knoll east of Company A.

To commander, Machine Gun Company, at 7-20 A. M.:

Follow the 2d Battalion to the nose beyond the stream north of this point (741), and support the firing lines.

To the Adjutant:

Send the Band to the Surgeon. Have the engineers remain south of this knoll.

Colonel D reports his dispositions to the advance guard commander, who comes up with the support, and asks for the 3d Battalion (1st Inf.) for his reserve.

(End of solution, Situation No. 10.)

The deployment of the 1st Infantry draws hostile artillery fire from somewhere north of hill 726, and leads to the extension and strengthening of the hostile skirmish lines. By 8-00 A. M., it is evident to General C, at 741, that the two deployed battalions of the 1st Infantry have not been able to gain fire superiority.

Reports have been received as follows:

At 8-00 A. M., from the colonel, 1st Cavalry, dated 7-20 A. M.:

Was driven east of LITTLESTOWN by hostile brigade of cavalry with some artillery. Am now in vicinity CENTER S. H., south of SELLS STATION, confronted by at least one hostile regiment. Believe bulk enemy's cavalry and guns are in front of your advance guard. Have seen no hostile infantry. I will attack toward LEFEVRE as soon as evident advance guard is engaged.

From the colonel, 2d Infantry, dated 7-30 A. M.:

My leading battalion is warmly engaged south of the stream southeast of crossroads 733, with a superior enemy.

The division commander joins General C at 7-50 A. M.

Required:

Orders and action, commander, advance guard, since 7-00 A. M.

(Time for solution, two hours)

Solution

Orders, commander, advance guard:

At 7-10 A. M., to major, 1st Battalion, 1st Light Artillery, on knoll 741: 7-10 A. M.

Turn your battalion out of column to the west and, moving under cover to the vicinity of Pleasant Grove S. H., support the advance of our infantry. The 3d Battalion, 1st Infantry, will escort your command.

To an aid:

Direct the major of the battalion at the head of the reserve to escort the artillery to the vicinity of Pleasant Grove S. H.; then to leave one company to provide security for the artillery and, advancing to the draw west of this knoll (741), report the rest of his battalion to Colonel D.

Advance Guard,
Knoll 741,
2 Sept., 15, 8-05 A. M.

Col. E (Comdg. flank guard):

Our cavalry, now south of SELLS STA., reports the enemy has a brigade of cavalry in our front. Blue cavalry will attack towards LEFEVRE as soon as the advance guard is engaged. The 1st Inf. attacks west of knoll 724. Art. supports from PLEASANT GROVE S. H. You will attack at once from knoll 724, inclusive, to the east. Establish flag communication with knoll 741. 8-05 A. M.

C,
Brig Gen.

By mounted messenger.

To an aid:

Direct the colonel of the 3d Infantry to advance to a covered position south of this knoll (741), and the engineer company to join the 3d Infantry there. Have the ambulance company remain south of the low ridge a thousand yards south of this point (741) and west of the highway.

General C transmits the message from the cavalry to the division commander and reports:

I am attacking with two regiments. The advance guard artillery is supporting from the vicinity of Pleasant Grove S. H. To expedite the hostile withdrawal, I would request that the remainder of the 1st Artillery be ordered into action, east of the turnpike and behind the ridge south of us.

(End of solution, Situation No. 11)

Situation No. 11-A

1st Bn. 1st L. A.

(CAPTAIN SCOTT)

Major C receives the order of the advance guard commander at 7-10 A. M. on knoll 741. The reconnaissance of the ridge has been completed, and verbal reports with sketches have been made by the reconnaissance parties. Lieutenant A has been sent to hill 787, and Lieutenant B to hill 744, both to remain in observation until further notice.

The battalion, less combat trains, is halted with its head about 400 yards south of 727. The battery commanders have ridden forward and, from the crest, are observing the ridge east and west of 726 occupied by the enemy, about 1,000 yards of which is visible through the gap between the trees.

Required:

Orders of Major C and the conduct of his battalion.

Captain D, gallop back to the firing batteries and conduct them to position. Batteries A and B in observation east of hill 744. Sectors right and left from the pike.

Battery C in readiness south of hill 767.

Wire to Batteries A and B.

Leave two scouts with me.

My station will be here.

Lieutenant D (Agent Combat Trains), conduct the combat trains by this road (indicating on his map the road 589 west and north-west) to the roadfork near hill 704, where they will be at the disposal of battery commanders.

The adjutant at once gallops off, taking with him the sergeant major and four scouts. As he passes the road corner 300 yards north of 727, he says to the sergeant major:

Line will follow that road to batteries.

At the crest he meets the battery commanders and continues south until the whole party is below the crest.

Sergeant Major, take the reel forward at a trot. Leave the cart at the Major's position and lay wire by the route I indicated to Pleasant Grove S. H., where further orders will meet you.

To the officers:

Batteries A and B take position in observation about three quarters of a mile west of here. Battery C takes position in readiness 400 yards west of here.

3d Battalion, 1st Infantry, marches as escort.

I will mark the route. Mount and move out at once, at the walk.

Battery commanders join me.

Scouts open fences.

Captain D rides rapidly across the field to the roadfork at the southeast end of hill 767. The infantry is approaching from the east and will be passing when the batteries arrive there. There seems no need to wait until the infantry shall have gained distance, and travel through the fields is not heavy. He directs the three fences south of the road to be opened, and leaves a scout as marker and to direct the leading battery to keep in the fields towards the farmhouse 400 yards west. The party then continues on past the farmhouse and across the road from the south to where the road 706—Pleasant Grove S. H. crosses the stream line.

Captain D directs:

Positions of Batteries A and B are there (pointing to the north slopes of the ravine). A on the left, B on the right, leaving room on the right for C. Limbers down this road (pointing south) to vicinity of first roadfork.

BC stations will be on that hill (pointing to 744). We will go there by the road.

Corporal X, have the batteries halt here in double section column until sent for by their battery commanders.

Corporal Y, ride to the schoolhouse, meet the reel and conduct it by this road to the first corner south, then west, then up that hill (pointing to 744).

The party then gallops to 706, west about 450 yards, through a gap in the fence, and north up the slope of hill 744, about 200 yards, where they dismount. The four officers go forward on foot, until they can see the crest at 726 and part of its forward slopes. Lieutenant B reports light

skirmish lines along the crest west of the pike, and along the fence on the forward slope east of the pike.

Captain D directs:

Our infantry has been stopped by rifle fire from that crest. They report a line 500 yards long, astride the pike. Our mounted patrols have been stopped about a mile northwest of here and also to the east of the pike. Battery A, observe from the pike to the west; Battery B, to the east of the pike. Report targets but wait the battalion commander's order to open fire.

The battalion commander is at that group of houses (741), and wire is being laid to this point.

NOTE: Battalion adjutant had about 2 miles to ride and about 3' walking. Add to this, 5 minutes for orders and 5 for delay at fence or 23'.

Reel cart had 2 1-3 miles to go at a trot,	17.5'
Orders received at 7-13.	3.0
Unlimbering, starting, etc.	3.0
	23.5'

Firing batteries had one mile to go at a walk, through cultivated ground,

	20.
Unlimbering in position, etc.	3.
	23.

Occupation of position completed at 7-33.5, or say 7-35.

Fire Direction by Major C

Major C:

All batteries. Direction point, the house on the crest at 726.

The 1st Battalion, 1st Infantry, is deployed on the left of the pike, the 2d Battalion on the right of it. Both have begun fire action from the line of the creek.

Battery A, adjust on the crest in line with direction point. Battery B, on the crest 150 mils right. (724).

O. K.

Battery A, sweep the crest from 30 right to 90 left. Battery B, from 150 right to 30 right.

Sufficient for both.

Battery B, fence and road corner 150 right. Range 2,800. Sweep 50 mils right and left of that.

O. K.

Both batteries continue fire. Battery A, sweep crest 100 to 200 mils left.

Battery B, sweep edge of woods 250 to 170 right.

Battery C, go into position on right of Battery B.

Telephone man:

Captain A reports that sound of hostile guns is directly over direction point, sir.

Message from Lieutenant A:

Sound of artillery fire over hill 726.

From Lieutenant C, with flank guard:

Sound of hostile guns close to or west of the road running northwest from 733. Saw artillery reconnoitering party at 733, ten minutes ago, and believe it is now at a barn in south edge of woods 250 mils left of 733.

Major C decided that the hostile artillery was on the bare grass knoll about half a mile northwest of 733, and that its observation, or part of it, was at the barn described by Lieutenant C. The barn was just visible over the trees on the northwest slope of 726.

Battery B, a barn 225 mils right. Range 3,300. Attack it with volleys H. E. shrapnel at 32, 33, and 3,400 yards.
O. K.

All batteries:

Prepare to attack hostile artillery in position 20 left to 40 right. Parallel fire. Site, 1 less, 2 rounds H. E. shrapnel at 3,900, 4,000, and 4,100. Report when ready.

Fire. Repeat the fire.

Battery C, continue the fire on the whole area. Batteries A and B, resume fire on hostile infantry in your sectors.

* * * * *

Lieutenants A and B, go forward and reconnoiter the flanks of the hostile line.

Situation No. 12

(CAPTAIN FISKE)

By 8-30 A. M., the entire 1st Artillery is firing. The enemy's rifle fire is decreasing, and his artillery has ceased firing. The men of the three reserve companies of the 1st Infantry have been loaded with ammunition and sent into the line of the 1st Battalion.

8-30 A. M.

The division commander has ordered the 2d Brigade, as it crosses Silver Run, to mass west of the turnpike, and the Artillery Brigade (less one regiment) east of the turnpike.

At 8-35 A. M., General C, from knoll 741, can see the lines of the 1st Infantry ascending the slopes of hill 726. The sound of infantry firing has practically ceased.

8-35 A. M.

Required:

Orders and actions of General C, commander, advance guard, 8-35—8-40 A. M.

(Time for solution, one hour)

Situation No. 13

Orders, General C:

8-35 A. M.

At 8-35 A. M., to an aid:

Tell Major C the enemy is withdrawing, and to rush his batteries by the Baltimore Turnpike to the heights (726—724) north of the Piney Creek Branch.

To the colonel, 3d Infantry:

The enemy is withdrawing. Follow the 1st Infantry at once towards the hill (726) yonder. Leave the pike clear for the artillery. Take the engineers with you.

The general then gallops forward to the vicinity of crossroads 689.

(End of solution, situation No. 12)

From 689, General C watches small detachments of hostile cavalry withdraw rapidly, on the roads and across country, in the direction of Littlestown. Reports are received almost immediately from the flank guard that knoll 766 has been taken; and that from its front hostile cavalry is retiring towards Lefevre. A few Red prisoners confirm the general's impression that the advance of the division has been opposed by three regiments of cavalry and two or three horse batteries. At 9-00 A. M., the 1st Infantry is assembling by companies, but in considerable disorder, on both sides of the turnpike, near 689. Small bodies of the 2d Infantry, moving north, are to be seen a mile to the east. The artillery battalion is partially unlimbered east of knoll 726 but, evidently for lack of a suitable target, is not firing. The 3d Infantry, in line of columns, is coming over the crest of ridge 726.

9-00 A. M.

Required:

Orders, General C, 9-00—9-20 A. M.

(Time for solution, one hour)

Situation No. 14

General C's orders, at 9-00 A. M., to an aid:

Direct the 2d Infantry to continue the advance towards the low knolls west of Lefevre. The remainder of the advance guard marches on Littlestown. 9-00 A. M.

At 9-10 A. M., to the colonel, 3d Infantry:

The enemy has withdrawn towards Littlestown and Lefevre. Your regiment with the engineers will take the advance towards Littlestown as the support of the advance guard. The 2d Infantry moves on Lefevre. 9-10 A. M.

At 9-15 A. M., to the colonel, 1st Infantry:

The 3d Infantry takes the advance on Littlestown; the 2d Infantry on Lefevre. You will follow the 3d Infantry at 800 yards. Leave space between your leading battalions for the battalion of artillery. Leave one company to assist the ambulance company in policing the battlefield. 9-15 A. M.

At 9-17 A. M., to the major of artillery:

The 3d Infantry takes the advance on Littlestown. As soon as it has some men on the ridge between Piney Creek and Littlestown, you will limber up and take place in column behind the leading battalion of the 1st Infantry. 9-17 A. M.

Advance Guard,
Crossroads 689.
2 Sept., 15, 9-20 A.M.

C. O., 1st Amb. Co.:

Take up police of battlefield at once. One co., 1st Inf., will assist you.

By command, Brig. Gen. C: 9-20 A. M.
K,
Adj.

ADVANCE GUARD RECONNAISSANCE OF AN ENEMY IN POSITION

By 10-10 A. M., the leading element of the 3d Infantry has reached the nose 621, northwest of Littlestown. General C has ridden rapidly to a high building near the northeast exit of Littlestown, and is examining the ground through his glasses. The 2d Infantry can be seen, half a mile south of Lefevre, closing up on its advance. The 3d Infantry, except its leading company, has not gone beyond the buildings in Littlestown. The cavalymen with the 2d and 3d Infantry have been fired upon and driven back from knoll 637, 1 mile north of the eastern exit of Littlestown; 10-10 A. M.

from Pleasant Hill S. H.; and from the orchard one mile west of Pleasant Hill S. H. between roadforks 564 and 544; and have so reported. The general cannot make out any indications of the enemy's presence in those directions. The hostile cavalry appears to have retired to the northeast. General C has been able to get nothing from the few remaining inhabitants in Littlestown to indicate where the enemy can be found in strength.

Required:

General C's orders, 10-20—10-30 A. M.

(Time for solution, one and one-half hours)

Situation No. 15

10-20 A. M.

General C's orders: At 10-20 A. M., to the colonel, 3d Infantry, who has reported to the general:

I want you to push reconnaissance from Pleasant Hill S. H. west to Alloway Creek to determine where the enemy is to be found in strength. The 2d Infantry will similarly reconnoiter to your right. Its mounted men have been driven back from that low knoll to the northeast (637). I will send some artillery west of Littlestown to support your detachments.

At 10-25 A. M., to an aid:

10-25 A. M.

Direct the 2d Infantry to push reconnaissance towards the north-west from Lefevre to determine where the enemy is to be found in strength. The 3d Infantry is reconnoitering from Pleasant Hill School to Alloway Creek. Artillery will be sent east of Littlestown to support the detachments of the 2d Infantry.

At 10-27 A. M., to the major of artillery, who has heard the instructions for the 2d and 3d Regiments:

10-27 A. M.

Select positions and place batteries in observation under cover, east and west of Littlestown, to support the reconnaissance of the 2d and 3d Regiments.

At 10-28 A. M., to an aid:

10-28 A. M.

Direct the 1st Infantry and engineers to mass south of Littlestown and east of the pike.

Required:

Orders of the colonel, 3d Infantry, 10-30—10-45 A. M.

(Time for solution, one and one-half hours)

Situation No. 16

Orders of the colonel, 3d Infantry:

In the streets of Littlestown, at 10-30 A. M., to the major, 2d Battalion:

Our mounted men have been stopped at Pleasant Hill S. H. and on the next road, about a mile west of it. We are ordered to locate the enemy's main forces. Take your battalion a half mile west of this town, on the railroad track; then north to Ash Grove S. H. From that point, advance towards roadfork 564, and drive in any hostile covering detachments encountered. Leave two of your companies in the vicinity of Ash Grove S. H., at my disposal. Artillery will be ready to support from west of Littlestown. I am going to the low ridge northwest of the Toll Gate, whence I will send the 1st Battalion towards Pleasant Hill S. H.

10-30 A.M.

To the major of the 3d Battalion, who has heard the orders for the 2d Battalion:

Follow the 2d Battalion to the drawhead 600 yards south of Ash Grove S. H., and await my orders there. Patrol towards Germantown. Take the machine guns with you, and look for supporting positions near Ash Grove S. H. Band will follow you.

To the major, 1st Battalion, at 10-45 A. M., on knoll 621:

The Regiment has been directed to reconnoiter on the front Alloway Creek—Pleasant Hill S. H., to locate the enemy's main forces. The 2d Infantry similarly reconnoiters to our right. The 2d Battalion is moving via Ash Grove S. H. to the north on the road about a mile west of this point. You will advance with two companies directly against Pleasant Hill S. H. Connect with Major H on your left and with the 2d Infantry on our right. Leave your remaining companies, at my disposal, west of the Toll Gate. There will be artillery west of Littlestown to support us if necessary. Do not advance beyond this point till I direct. I will remain here.

10-45 A. M.

(End of solution, situation No. 15)

One platoon of the leading company is deploying on the nose of knoll 621, with patrols towards Ash Grove S. H. and 558 W.

Required:

Orders of the major, 1st Battalion.

(Time for solution, one hour)

Situation No. 17

Orders of the major, 1st Battalion, at 11-10 A. M.,

near northern building in Littlestown:

11-10 A. M.

Our mounted men have been driven back from Pleasant Hill S. H. This Battalion has been directed to determine what hostile force is at the schoolhouse, and where the enemy's main lines are. The 2d Battalion is moving a mile west of us on a similar mission and the 2d Infantry nearly a mile east of us. Artillery will support us if necessary.

Company B will advance west of the Littlestown—Toll Gate—Pleasant Hill S. H. road; Company A will advance east of that road. Each company will deploy one platoon at wide intervals, and start the advance behind its skirmishers, in platoon columns. Company B will send one platoon up the stream line a half mile west of Pleasant Hill S. H. It will connect with the 2d Battalion. Company A will send a platoon up the draw east of Pleasant Hill S. H. It will connect with the 2d Infantry.

Companies C and D will follow the advance to cover near the Toll Gate, where they will remain subject to the colonel's orders.

Issue ammunition. Leave packs here under guard (under cover of last buildings in Littlestown).

Battalion headquarters behind Company A.

Move up to Toll Gate and await my orders to advance therefrom.

Situation No. 17-A

1st Battalion 1st L. A.

(CAPTAIN SCOTT)

Upon receipt of the advance guard commander's order for reconnaissance, Major C proceeds to his battalion, which is in line in the field just southwest of roadfork 575; the combat trains are in the road south of Mt. Pleasant S. H.

Battery commanders and their details are near Major C, waiting for orders. The battery reconnaissance officers are still detached with the scouts, but the latter have been replaced by substitutes.

Major C, at 10-35 A. M., issues orders to his battery commanders as follows:

Our scouting parties have been driven back by rifle fire from knoll 637, Pleasant Hill Schoolhouse, and the orchard about a mile north of Ash Grove Schoolhouse.

10-35 A. M.

Reconnaissance in force is ordered, to determine where the enemy is in strength.

The 2d Infantry reconnoiters to the northwest from Lefevre.

The 3d Infantry reconnoiters the front, Pleasant Hill S. H. to Alloway Creek.

This Battalion supports these reconnaissances.

The Battalion (less Battery C), in observation about 600 yards northeast of the Pumping Station. Sector of observation, the Electric Railway west to Pleasant Hill S. H. Battery A to observe the

east half, Battery B the west half. Fire will be by my order. Wire communication.

Limbers and combat trains about 400 yards south of the Pumping Station.

Battery C will support the 3d Infantry from position to the west of Littlestown. Communication by courier. Battery C combat train will follow it.

My station will be that lone house south of the east end of the railway yards.

Corporal A (agent), report to the brigade adjutant.

Sergeant Major, establish wire communication with Captains A and B as soon as their stations are selected.

Captain D, take 3 scouts and ride to the 2d Infantry. Report to the C. O. Tell him what we are doing, and that I will be glad to be advised of his dispositions and subsequent movements. Look carefully into the question of information and communications. If in your opinion, Lieutenant C can handle the matter, well and good. Get him started and give him more men if necessary; then return. If there is any doubt as to his being equal to the task, take it over yourself and send him to report to me.

Battery C, 1st L. A.

Captain C at once writes a message and sends it to his executive officer by his combat train agent:

March battery forward to 609 roadfork (3-inch map), then west and halt in road with head at 607 roadfork. Wait orders there. Leave a marker at 609.

C,
Capt.

To the Agent:

After delivering this message to Lieutenant E, tell him you are to go on to the combat train and conduct it to the battery as soon as it can get through. Ride at a trot.

Captain C then goes to the colonel of the 3d Infantry and reports that his battery is to support the advance of that regiment. He is informed of the dispositions made by the colonel. Captain C informs the colonel that he has no officer to send with him, but will send one later, meantime a corporal will act as agent.

Corporal N, report to Colonel K as agent. I am going to the reservoir on that hill south of the tracks at the west edge of the town, and will let you know of any change in my position.

Captain C now mounts and proceeds with his party to the reservoir (W. W. on the map). Little can be seen in the field of operations of the 3d Inf., because of the buildings on hill 642, the spur 621, scattered groves, and the trees along the small streams.

10-45 A. M.

Musician A, that is the battery coming (pointing toward 609, which the battery has partly passed on the road to 607). Meet it and tell Lieutenant E to continue the march by that road over that hill (pointing to hill 623) to the railroad crossing, and to halt there.

Corporal M, remain here to direct anyone looking for me. I am going over to that cemetery (pointing to the northwest).

10-55 A. M.

The party then rides across country, by the south of the hill on which the cemetery stands, to the north end of the orchard. Here all dismount, and Captain C goes forward to the north end of the cemetery. Here a good view is had, between spurs 621 and 607, of the area of operations of the 3d Inf., except of the extreme western portion. A knoll about 700 yards west (642) looks as though it might remedy this deficiency. The likelihood of finding a better observation station is rather remote, he judges. Just west of the cemetery and 40 feet below it, there is an open field which will be a good position for the battery provided it is not exposed to hostile observation from west of the Alloway.

Corporal K (signalman), you and Musician T open fences to that hill (pointing to 642). I am going over there.

Musician A (who has just reported), have the battery officers report to me at the west corner of the cemetery. I am going to that hill (pointing to 642), and will be back in a few minutes.

Captain C returns to the party, mounts, and rides to 642.

As he crosses the field west of the cemetery, he notes that it is hidden from view from all hostile terrain, and that the house at the west fork, about 800 yards to the northwest, will do for an aiming point. One in rear would be preferable, but none is available. At hill 642 he finds that the view is as good as he hoped for; and he decides to establish his own station in the cemetery, and an auxiliary observation station here.

He points out the Alloway Creek and its eastern branch, through 544 and the knoll on which roadfork 564 is visible, and orders:

The enemy is north of that branch and has driven back our cavalry that tried to cross it.

Our 3d Infantry is going to advance from the wooded spur due north of us.

The Battery will support the advance from position in that field just this side of the cemetery.

Corporal K (signalman), you and Musician T remain here and keep the hostile position under observation.
My station will be in the cemetery.

At 11-00 A. M., Captain C is back at the cemetery where his officers, Lieutenants E and G, are waiting. Lieutenant C is with the 2d Infantry, Lieutenant H is with the C. Tn. 11-00 A. M.

Captain C takes them to the north end of the cemetery, with map and terrain orients them, and orders:

Our scouting parties have been driven back from the general line running east and west through Pleasant Hill S. H.

A reconnaissance in force is about to begin to locate the hostile main position.

The 2d Infantry advances northwest from Lefevre, supported by Batteries A and B.

The 3d Infantry operates between Pleasant Hill School and the Alloway. The 1st Battalion from the vicinity of the Tollgate advances against Pleasant Hill S. H. The 2d Battalion moves north from the vicinity of Ash Grove S. H. Both are at or near their starting points now, and that is the 3d Battalion passing to the west of us. It is in reserve, and its position is about half a mile north of that hill (642).

This Battery supports the 3d Infantry.

Battery position, in that field, facing due north; right about 50 yards west of the west corner of the cemetery. Aiming point, that house at the roadfork.

Limbers and combat train at the railroad crossing.

My station will be here. Megaphone.

Lieutenant E, put the battery in position, marching by roadfork 616. You will be seen crossing the crest between the railroad crossing and that point, so go over it quickly, in line. Move fast.

Lieutenant G, establish a patrol of one caisson corporal and three spare cannoneers to the west of the battery, and another one to the south, to guard our flank and rear. Then take two caisson corporals and Private O (signalman), go north and find the colonel of the 3d Infantry. He is likely to be somewhere between Tollgate and Ash Grove S. H. Tell him of my position and that the battery will be ready to fire by 11-10. Remain with him as information officer. Relieve Corporal N who is with him, and send him by Littlestown to tell the battalion commander where we are; then he is to rejoin me, picking up Corporal M on the way.

Private O will leave his telephone here.

Captain C prepares firing data for Pleasant Hill S. H., roadfork 598, the house 700 yards west, the streamline-roadcrossing 300 yards further west, and the farm buildings 300 yards west of Grawmers.

THE ATTACK

Deployment of the Division

(CAPTAIN FISKE)

1-00 P. M.

At 1-00 P. M., the division commander is with the commander of the advance guard on a tall building in the eastern part of Littlestown. The reconnoitering regiments have driven in several small, hostile covering detachments, and laid bare an entrenched position extending from knoll 647, inclusive, through knoll 627, and along the nose terminating southeast of the stream junction 540 on Alloway Creek. The timber northwest of Pleasant Hill S. H., and east of road junction 564, has been largely cleared. The 1st Cavalry, north of Sells Station, is observing the hostile cavalry brigade, which is reported massed near knoll 607, a mile and a half west of Brushtown.

At 12-00 o'clock, the 2d and 3d Divisions were forming to attack hostile positions west of Alloway Creek.

Required:

Orders of the division commander since 10-00 A. M., including those to meet the present situation.

(Time for solution, one and one-half hours)

Situation No. 18

Orders of the division commander.

At 10-00 A. M., to the artillery brigadier:

10-00 A. M.

Turn the artillery of the main body into park west of road junction 629 and north of the branch of Piney Creek. Let the men eat.

To an aid:

Turn the 2d Brigade east across country, south of the stream which is south of road junction 629. Have it assemble and get the noon meal in the flats a half mile east of crossroads 733.

Have the 3d Brigade and following auxiliaries assemble, and also get their noon meal, south of the artillery brigade.

Send brigade commanders to report to me at this point.

1st Div.,
LITTLESTOWN,
2 Sept., 15, 1-00 P. M.

Field Orders,

No. 4.

Gettysburg 3-inch.

1. Our advance guard has driven hostile detachments from knoll

637, from PLEASANT HILL S. H., and from the vicinity of roadfork 564, near the ALLOWAY. Red trenches have been located on the southern slopes of knolls 647 and 627, and of the long nose between the GRAWMER farm and stream junction 540, on ALLOWAY CREEK.

The hostile brigade of cavalry is reported massed near G. MARTZ, a mile and a half west of BRUSHTOWN.

At noon, our 2d and 3d Divisions were preparing to attack west of ALLOWAY CREEK.

2. This Division will attack east of ALLOWAY CREEK, enveloping the hostile left. March conditions cease.

3. (a) 1st Brig. F. A. will place one gun bn. west of LITTLESTOWN to support the 1st Brig., two gun bns. east of LITTLESTOWN to support the 2d Brig., and the howitzers south of LITTLESTOWN, in observation.

1-00 P. M.

(b) 1st Brig. will deploy to attack the enemy's position from knoll 627, inclusive, to the ALLOWAY. The Brigade will await further orders to advance beyond its present first line.

(c) 2d Brig., advancing east of knolls 652 and 637, will attack knoll 647 and envelop the enemy's left.

(d) 3d Brig., in reserve, will move into the meadows east of crossroads 733.

(e) 1st Cav., from SELLS STA., will cover our right and support the enveloping attack.

(f) 1st Bn. Engrs., will prepare LITTLESTOWN for defense.

(g) 1st Bn. Sig. will connect the brigades with this house.

4. Station for slightly wounded: knoll 726, 2,000 yds. south-east of LITTLESTOWN on BALTIMORE TURNPIKE.

1st Amb. Co. to knoll 726; remaining ambulance companies and one field hospital will assemble south of knoll 766, one mile north-east of knoll 726.

Ammunition distributing stations: roadfork 629, 2,500 yards southeast of LITTLESTOWN on BALTIMORE TURNPIKE, and crossroads 733, 1,500 yards northeast of roadfork 629.

5. Div. Hq. at K house, near eastern exit LITTLESTOWN.

A,
Maj. Gen.

Copies to assembled brigade, engineer, and signal commanders, and chief surgeon. To 1st Cav. by captain Tr. I. who, with his own troop and $\frac{3}{4}$ Tr. E, is directed to join regiment.

1st Div.,
LITTLESTOWN,
2 Sept., 15, 10-00 A. M.

Lt. Col. K:

Halt trains at and south of UNION MILLS.

10-00 A. M.

By command, Maj. Gen. A:

X,
C. of S.

By motorcycle messenger.

1st Div.,
LITTLESTOWN,
2 Sept., 15, 1-00 P. M.

Lt. Col K:

Enemy in position 2 miles north of LITTLESTOWN. Div. attacks.

1-00 P. M.

Release 1st F. Hosp. Co. and send to knoll 766, $1\frac{1}{2}$ miles south of LEFEVRE.

PROBLEMS IN TROOP LEADING

Release Am. Tn. and order to crossroads 727, 1½ miles N. W. SILVER RUN village.

By command, Maj. Gen. A:

X,
C. of S.

By motorcycle messenger.

Situation No. 18-A

The Artillery Brigade

(CAPTAIN SCOTT)

At 10-00 A.M., General E sent orders to the brigade to park west of roadfork 629 and north of the stream, combat trains to join their batteries, the command to eat. At 11-00 A. M., he ordered the colonel of the 1st L. A to reconnoiter the terrain between the Baltimore Pike and the west branch of the Little Conewago, the colonel of the 2d L. A., the country west of the Baltimore Pike. Both reported to him in Littlestown between noon and one o'clock.

General E received the division order for the attack at 1-00 P. M.

Required:

Orders of General E.

1st Brig. F. A.,
LITTLESTOWN,
2 Sept., 15, 1-05 P. M.

Lt. Col. X:

Brig. marches at once.

1st L. A. to the PUMPING STATION where the regimental commander's orders will meet it.

2d L. A. via GEORGETOWN to the quarry ½ mile south of LITTLESTOWN, where the regimental commander's orders will meet it.

N. B. Exposure to observation from the terrain north of the railroad will be avoided.

E,
Brig. Gen.

Read to colonels and staffs. Routes marked on maps.
By aid, gallop.

1st Brig. F. A.,
LITTLESTOWN,
2 Sept., 15, 1-20 P. M.

Field Orders,

No. 2.

Gettysburg, 3 inch.

1. The enemy has been driven back on an intrenched position extending from hill 647, inclusive, across hill 627, and west to ALLO-WAY CREEK near the 540 fork. Its location and extent west of ALLO-

1-05 P. M.

1-20 P. M.

WAY CREEK are not yet known. His cavalry, a brigade with two or three horse batteries, is to his left rear.

Our army attacks today.

This division attacks from hill 647 to ALLOWAY CREEK.

The 1st Brig. attacks from hill 627, inclusive, to ALLOWAY CREEK.

The 2d Brig. attacks hill 647, from the direction of LEFEVRE, enveloping the enemy's left.

The 3d Brig. is in reserve. Its first position is in the flats about one half mile east of crossroads 733.

The cavalry covers our right from the vicinity of SELLS STATION.

2. This Brigade occupies position at once.

3. (a) The 1st L. A. (less Btry. C), will support the attack of the 2d Brig., 1st Bn. from its present position, 2d Bn. from position about 1,000 yards northeast of the 1st Bn.

(b) The 2d L. A. (less 2d Bn.) will support the attack of the 1st Brig. from position about 1,200 yards south of ASH GROVE S. H. Btry. C, 1st L. A., attached to the 2d L. A.

(c) 2d Bn., 2d L. A., in observation south of the waterworks (W W). Sector, hill 647, inclusive, to ALLOWAY CREEK. Target, the hostile artillery.

4. Distributing stations: crossroad 733 and roadfork 629. Station for slightly wounded: knoll 726, 2,000 yards southeast of LITTLESTOWN.

5. Brig. Hq. near eastern exit of town. Regt. comdrs. and comdr. 2d. Bn., 2d L. A., connect by wire.

E,
Brig. Gen.

Copies to regimental and battalion commanders.

(CAPTAIN FISKE)

Required:

Orders of the commander of the 2d Brigade in compliance with the attack order of the division.

(Time for solution, one hour)

Second Brigade—Situation No. 19

Orders, commander, 2d Brigade:

At 1-30 P. M., verbally, to his colonels and staff on hill 766, one and one half miles south of Lefevre:

Our advance guard has located hostile entrenchments from the low knoll (647) in our front, westward to Alloway Creek. The hostile cavalry is reported massed a mile and a half west of Brushtown. The entire army is attacking, this division from Alloway Creek to the east. The 1st Brigade attacks from the wooded knoll (627), inclusive, to the west. Our artillery supports from positions east and west of Littlestown. The 1st Cavalry covers our right from the vicinity of Sells Station.

1-30 P. M.

This Brigade attacks the low knoll (647), and envelops the enemy's left.

The 4th Infantry, advancing on the line Lefevre—Knoll 647, will attack that knoll.

The 5th and 6th Regiments, Colonel K, commanding, will take station in reserve, a half mile east of Christ S. H.

Empty ammunition wagons to crossroads 733.

Station for slightly wounded: knoll 726, 2,000 yards southeast of Littlestown.

Messages to the reserve.

Required:

Actions and orders, colonel, 4th Infantry.

(Time for solution, forty-five minutes.)

Situation No. 20

The colonel, 4th Infantry, issues orders:

At 1-40 P. M., to the adjutant:

1-40 P. M.

Have the senior captain conduct the Regiment to the northeast, under cover, to a point about 500 yards southwest of 594 W. Send the majors and Captain K (M. G. Co.) to meet me a thousand yards down this road to the northeast.

At 1-55 P. M., at the clump of timber one half mile south of Lefevre, to his field officers, adjutant, and Captain K:

The enemy has occupied a position extending westward from the low knoll (647) in our front. The hostile cavalry is massed behind the enemy's left, a mile and a half west of Brushtown. The army is attacking. The 1st Brigade, on our left, attacks from the wooded knoll (627) to Alloway Creek. Our cavalry, at Sells Station, is covering the right flank. Our 5th and 6th Regiments follow us in reserve.

This Regiment attacks knoll 647.

1-55 P. M.

The 2d Battalion will attack the western half of knoll 647, its right taking the direction, road junction (612) 250 yards west of Lefevre-farmhouse near top of knoll 647.

The 3d Battalion, in conjunction with the 2d Battalion, will attack the eastern half of knoll 647.

The 1st Battalion and machine guns, in reserve, will follow the 3d Battalion at 600 yards.

The 1st Battalion will send a strong patrol via Wentz and Valley Grove S. H., to secure our right flank.

Slightly wounded to knoll 726, 2,000 yards southeast of Littlestown. Band to surgeon.

Empty ammunition wagons to crossroads 733, refill, and come up to Lefevre. Leave packs where you issue ammunition.

Messages to the reserve.

Required:

Orders of the major, 3d Battalion, for the attack.

(Time for solution, forty-five minutes.)

Solution, Situation No. 20

The major issues ammunition 600 yards southwest of 594W, drops packs, conducts his battalion under cover of the timber to the draw west of Lefevre, assembles his captains on the eastern nose of knoll 646, and, at 2-20 P. M., orders:

The enemy's left is on the low knoll 3,000 yards in our front. His cavalry is reported massed three miles north of us. Our army is attacking—our regiment the low knoll (647), the 2d Battalion the western half of that knoll, the 1st Battalion in reserve. The 1st Battalion sends a patrol towards Valley Grove S. H. to cover our right.

2-20 P. M.

This Battalion attacks the eastern side of the knoll (647).

Companies I and K will form the firing line, and will each deploy along this nose on a front of 125 yards, leaving fifty yards, at first, between companies.

Company I, on the left, will direct its center on the highest point of the knoll.

Companies L and M, in support, Company M on the right, will follow the firing line at 500 yards.

Battalion headquarters midway between the firing line and the supports.

Companies I and K, move out as soon as you are ready.

Company I, 4th Infantry

In compliance with the major's order, the captain of Company I immediately assembled his platoon leaders, and, at 2-25 P. M., directed:

The enemy is in position to the northwest, with his left on the low knoll (647) in our front.

Our whole army is attacking. Our regiment attacks the low knoll (647). The 2d Battalion is on our left; Company K on our right.

This Company will advance to attack, the center skirmisher marching on the highest point of the low knoll (647).

We will start in thin lines.

Lieutenant K (2d Lt.) and the scouts will lead. I will follow with the second line. Lieutenant L (1st Lt.,) will send forward the successive lines, at 150 yards, and will come up himself with the last.

2-25 P. M.

The captain deployed the company under cover of knoll 646, waited a few moments for the platoon commanders to explain the situation to the men and point out knoll 647, then signalled to the first line to start. The advance in thin lines continued without interruption until the second line reached the small fold south of the Todt farmhouse. The scouts went on about 440 yards beyond this house. In the fold near Todt's, a strong skirmish line was

built up by the accession of the succeeding lines. Up to this point, but few casualties had occurred, although the company had been subjected to one rather heavy burst of shrapnel. The cornfield west of Todt's was passed in platoon columns, the line of skirmishers being reformed just within the northern edge of the corn. From this position, that of the scouts was reached by platoon rushes from the left, and without firing. This last advance drew hostile fire from both artillery and small arms.

The captain drew in his platoon leaders to within earshot, then ordered:

Reference, red house, at 11-00 o'clock; on knoll to our front. Catch the company trench, the right of which is at three fingers, at at 5-00 o'clock therefrom. That trench, which seems to be about six fingers in length, is the company's objective. Each platoon of the right half of the company will fire on the entire eastern half of the hostile trench; each platoon of the left half of the company will fire on the entire western half of the hostile trench. Give me the range.

The 1st sergeant assisted by the musicians took the range with the Weldon to a fence post near the crest of knoll 647. The company range finders estimated it. The captain corrected his own estimate by the mean of the estimates of his range finders and by that found with the Weldon; then signalled:

Range 850.

Each platoon leader pointed out the platoon objective to his squad leaders; each of these indicated the squad's part of the target to his men. Sight leaves, instead of fingers, were used by the enlisted men in designating the target. Each corporal signalled ready to his platoon leader; each platoon leader signalled ready to the captain; and the captain signalled ready to the major. Both first line companies opened fire together, at 3-10 P. M., at the major's signal,

Commence firing.

First Brigade

Turning now to the 1st Brigade, we find that General C, after the receipt of the attack order of the division, first sent the following message:

3-10 P. M.

1st Brig.,
LITTLESTOWN,
2 Sept., 15, 1-15 P. M.

Col. S. (2d Inf.):

Enemy is intrenched along the line, knolls 647 and 627, stream junction 540 on ALLOWAY, and westward. Our army is attacking. 2d Brig. attacks knoll 647. Art. supports from east and west of LITTLESTOWN. 1st Brig. attacks knoll 627, inclusive, to the ALLOWAY; 1st Inf., the left section.

2d Inf., to which 2 cos., 3d Inf., now at PLEASANT HILL S. H., are attached, will attack hostile front from draw east of knoll 627 to farmhouse 300 yards west of GRAWMER, inclusive. Await my orders to advance beyond line, knoll 637—PLEASANT HILL, S. H.—roadfork 564.

1-15 P. M.

Slightly wounded to knoll 726, 1½ m. S. E. LITTLESTOWN.

Ammunition distributing station: roadfork 629 near knoll 726.

Brig. Hq. at knoll 621, N. W. TOLLGATE.

C.
Brig. Gen.

By aid.

General C then rode rapidly to the central cross street of Littlestown, where he met the colonel of the 1st Infantry. An orderly had been sent ahead to bring the colonel thereto from the position of his regiment, south of Littlestown. General C directed the colonel:

Send your regiment via the western exit of Littlestown to cover near Ash Grove S. H. Come yourself with me to knoll 621, northwest of the Tollgate. The engineers are no longer under your orders.

At 1-30 P. M., on knoll 621, northwest of the Tollgate, General C issued orders to the colonels, 1st and 3d Regiments, and his staff, as follows:

The enemy is intrenched on the line, knolls 647 and 627, stream junction 540 on the Alloway, and westward.

Our army attacks: the 2d Brigade on our right; the 2d Division on our left. Artillery, in position east and west of Littlestown, will support us.

1-30 P. M.

This Brigade will attack the hostile front from the first draw east of knoll 627 to the Alloway.

The 2d Infantry, to which are attached the companies of the 3d Infantry now near Pleasant Hill S. H., attacks knoll 627, inclusive, to the farmhouse 300 yards west of Grawmer, inclusive.

The 1st Infantry will attack from the farmhouse 300 yards west of Grawmer, exclusive, to the Alloway. The two companies of the 3d Infantry, now along the 544—564 road, are attached to the 1st Infantry.

Await my orders to advance beyond the line now occupied by the 3d Infantry.

The 3d Infantry (less 4 companies), in reserve, will await orders on the line, knolls 607 and 621. It will connect with the 2d Division.

Station for slightly wounded: knoll 726, 2,000 yards southeast of Littlestown on the Baltimore Turnpike.

Empty combat wagons to roadfork 629, near knoll 726.
Messages to this point (knoll 621).

First Infantry

The colonel sent his adjutant to meet the regiment somewhere southeast of Kuhn's, and to direct the majors and the captain of the machine gun company to trot ahead to knoll 607. The senior captain was instructed to mass the regiment under cover of knoll 691 and issue ammunition. About 2-00 P. M., the colonel issued orders to the officers he had directed to assemble and to his staff, on knoll 607, as follows:

The enemy is in position on an east and west line about 2,000 yards north of this point.

Our army is attacking. The 3d Infantry is on our right; the 2d Division on our left. The 3d Infantry has a couple of companies in the timber 1,400 yards to the north. Artillery will be west of Littlestown to support us.

This Regiment will attack the hostile front from the white house (pointing to the one 300 yards west of Grawmer), exclusive, to the Alloway.

The 1st Battalion will advance, with its right taking the direction, stream line 400 yards east of this point (crest of knoll 607)—white house (one 300 yards west of Grawmer), to attack the hostile front from the white house, exclusive, to a point 500 yards west thereof.

2-00 P. M.

The 2d Battalion will advance along the road running to the north a half mile west of this knoll (pointing to the 573—544—584 road), to attack the hostile front from the Alloway to a point 500 yards east of that stream. The brigade commander has attached to the 1st Infantry the two companies of the 3d Infantry now north of this point (607). The 2d Battalion will take them with it.

Both first line battalions will await further orders to advance beyond the line now occupied by the detachments of the 3d Infantry.

The 3d Battalion and machine guns, in reserve, will follow the 2d Battalion at 500 yards.

Packs will be left under guard where ammunition is issued.

Band to surgeon. Slightly wounded to knoll 726, 2,000 yards southeast of Littlestown on the Baltimore Turnpike.

Ammunition wagons, in charge of Sergeant Q, to roadfork 629, near knoll 726, by the route of the regiment's advance to this point, to refill and return.

Regimental headquarters with the reserve.

1st Battalion, 1st Infantry

The commander of the 1st Battalion sent his adjutant to cause the empty combat wagons to report to Sergeant Q,

to have packs dropped, and to conduct the battalion into the timber southeast of knoll 607. The captains reported to the major on the nose north of knoll 607, where, at 2-30 P. M., orders were issued as follows:

The enemy is in position on an east and west line some 2,000 yards north of this point. Our army is attacking. The 2d Infantry is on our right, the 2d Battalion on our left, artillery behind to support our advance. The 3d Infantry has companies 1,400 yards north of us.

2-30 P. M.

We will advance to attack.

Companies A and B, Company A on the right, will deploy south of the turnpike, each upon a front of 125 yards, with 25 yards between companies. Company A's right near the stream line 300 yards east of this point. At my signal, forward, these companies will advance in line of platoon columns. Company A's right will march on the white house (pointing to the one 300 yards west of Grawmer).

Companies C and D, Company C on the right, will follow in support at 400 yards.

Battalion headquarters will follow the center of the first line.

The companies deployed shortly after crossing the stream 900 yards north of the turnpike, and, without firing, gained about three hundred yards farther by company and platoon rushes. The major semaphored Company D, R L B, reinforce left of Company B, caught its captain as Company D passed, called the captains of A and B quickly into ear-shot, and directed:

Our objective is the enemy's trenches between the north and south fence south of the white house (300 yards west of Grawmer), and a point 3 fingers west of the fence which runs to the northwest, and over the crest at 11-00 o'clock from us. Total length of our objective about 17 fingers. Each company will attack the six fingers in its front.

Company B

The captain of Company B assembled his platoon leaders north of the company, in prolongation of the nearly north and south fence 500 yards east of roadfork 564. From that point faint indications of the Red trenches could be made out. The captain directed:

The battalion is attacking about 17 fingers of the hostile trenches.

We take the middle six fingers.

Sight along this fence to the north. Where the prolongation of the southern part of the fence cuts the enemy's trench is the left of this company's objective. We will advance from our present

position, guide left. Lieutenant K (commanding the left platoon) will cause his left skirmisher to move near this fence to the road north of us. Note that north of the road this fence bears off to the west, and will no longer serve the left skirmisher as a proper direction line.

Each platoon of the right half of the company will fire on the eastern three fingers of our objective; each platoon of the left half of the company will fire on the western three fingers of our objective. Give me the range.

2d Battalion, 1st Infantry

After noting the colonel's attack order, the major of the 2d Battalion rode rapidly to his battalion, which had assembled south of knoll 591. There he sent the ammunition wagons to Sergeant Q, caused packs to be piled, left two men in charge of them; and then, sending one squad rapidly ahead to cover the movement, gained ground to the west with the battalion until it stood, under cover of the 591 nose, facing north, in close line, 300 yards northwest of Kuhn's house. Taking the captains to the crest just north of the battalion, at 2-40 P. M., he directed:

The enemy is in an east and west position a mile and a half north of us.

Our army is attacking. The 2d Division is west of Alloway Creek. The 1st Battalion is on our right. The 3d Infantry has two companies a mile in front of us. They will join this battalion for the attack. Artillery will support us from positions west of Littlestown.

This Battalion will advance to attack.

Companies E and F in the first line, Company E on the right, will start from this point in line of platoon columns. Company E will move east of the road running north (pointing to the 573—544—564 road); Company F west of that road.

Companies G and H, in support, Company G, on the right, will follow at 400 yards. Company H will send a strong patrol along the Alloway to cover our left.

Battalion headquarters will follow Company E.

By 3-10 P. M., the leading companies had reached, and were lying down on an east and west line some 50 yards south of roadfork 564. Two companies of the 3d Infantry were in the timber east of Companies E and F. The enemy had cleared the timber due east of roadfork 564. The major assembled Major B, 3d Infantry, and the six captains, in the northern edge of the timber about 100 yards southeast of roadfork 564, and directed:

Our objective extends from 2 fingers east of the first drawhead east of the road running north (one starting at 546) to the Alloway.

2-40 P. M.

The 1st Battalion, 1st Infantry, is attacking east of this timber.

Companies E and F, 3d Infantry, attached by brigade orders to the 1st Infantry, will, under Major B, attack the portion of the objective east of the road running north.

Company E, 1st Infantry, will attack from that road, inclusive, to the fence 125 yards west of it; Company F, from that fence to the Alloway.

Await my orders to advance from your present positions. Open fire as soon as you are ready.

Companies G and H will remain for the present just north of the stream southwest of us.

Messages to the first house southwest of this point (second one north of 544).

3d Battalion, 1st Infantry

The major of the 3d Battalion, after sending his empty ammunition wagons to Sergeant Q and dropping packs, assembled the captains in front of the battalion, on knoll 591, and directed:

The enemy is in position on an east and west line a mile and a half north of this point. The army is attacking. The 2d Division west of the Alloway. Our regiment is attacking about a thousand yards of the hostile front from the Alloway east. The 1st Battalion is on the right, the 2d on the left. Artillery supports us.

This Battalion and the machine guns are in reserve.

At my signal forward, we will advance from this knoll in two lines, Companies I and K in the first line, Company I on the right; Companies L and M in the second line, Company L on the right. Two hundred yards distance between lines.

The right companies will move down the nose due north, the left companies east of the road running north (pointing to the 573—544 road).

Battalion headquarters between Companies I and K.

As soon as the last companies of the 2d Battalion had gained their 500 yards, the major of the 3d started his battalion. When the 2d Battalion opened fire, about 3-20 P. M., the two right companies of the 3d Battalion were in the two patches of timber between Ash Grove S. H. and the house 800 yards to the north. The left companies were abreast of them and in the draw just east of the 573—544 road.

3-20 P. M.

Machine Gun Company

The Machine Gun Company, extending its distances and trotting its animals across exposed spaces, moved north

to Ash Grove S. H., and then through the cornfield and patches of timber to the farmhouse 800 yards north of the schoolhouse. The combat wagon moved up rapidly to the shelter of the cornfield, where the ammunition was unloaded. The ammunition mules of the gun squads were unpacked at the farmhouse 800 yards north of Ash Grove S. H.; then returned and brought up the ammunition which had been unloaded at the schoolhouse. The combat wagon went back to the distributing station with the other empties of the regiment.

3-20 P. M.

By 3-20 P. M., regimental headquarters was established at the farmhouse 800 yards north of Ash Grove S. H. At that point, it was in flag communication with the majors of both the first line battalions and with brigade headquarters on knoll 621. The sergeant major was in charge of the agents of communication, who were the orderlies of regimental headquarters. Two remained mounted on the farm road south of the house for delivery of written or verbal messages. Three were on the house; one watching the 1st Battalion headquarters, one that of the 2d, and the third, that of the brigade. A messenger was below within call. The remaining orderlies were in charge of the horses.

The Band had taken the litters from the ammunition wagons and had come up to this farmhouse at the surgeon's orders.

2d Infantry

1-25 P. M.

The brigade commander's message directing the 2d Infantry to attack, found Colonel S on knoll 647, west of Lefevre, and his regiment disposed as follows: Eight companies and the machine guns were massed between knolls 647 and 652. Two companies of the 1st Battalion were in the timber north of crossroads 602. A platoon from each of Companies A and B was on knoll 637, 1,200 yards east of Pleasant Hill S. H. The remainder of Company A was in the clump of timber 400 yards southeast of knoll 637; the remainder of Company B at the farmhouse 200 yards south

of knoll 637. The brigade order was received at 1-25 P. M. Colonel S at once directed the lieutenant colonel to march the regiment, less the 1st Battalion, under cover south of the Northern Central railroad, to a point south of the eastern exit of Littlestown. He then had the following message written:

No. 1

2d Inf.,
Knoll 647,
2 Sept., 15, 1-35 P. M.

Maj. K (1st Bn.):

Army attacks. 2d Brig. attacks knoll 647, 1,400 yds. north your leading companies.

2d Inf., from LITTLESTOWN, advances via PLEASANT HILL S. H. to attack knoll 627 and west thereof.

Your Bn., in reserve, will, until further orders, remain in present positions. Connect with 2d Brig.

Slightly wounded to knoll 726, 2,000 yards S. E. LITTLESTOWN on BALT. PIKE.

Combat empties to roadfork 629. near knoll 726.

Messages to east exit LITTLESTOWN.

S,
Col.

1-35 P. M.

Delivered by the adjutant.

The colonel then trotted by the marching regiment, picking up enroute the majors and commander of the machine gun company, to a suitable point near the eastern exit of Littlestown. There, at 1-45 P. M., he issued orders, as follows:

The enemy is in position along an east and west line 3,000 yards north of Littlestown. Our army is attacking.

The 2d Brigade is on our right; the 1st Infantry on our left. Artillery will support from positions east and west of Littlestown. Two companies of the 3d Infantry are now near Pleasant Hill S. H.

This Regiment will attack the hostile front from the draw east of knoll 627, inclusive, to the farmhouse 300 yards west of Grawmer, inclusive.

The 2d Battalion will advance, in conjunction with the 3d Battalion, from the eastern exit of Littlestown, by routes east of Pleasant Hill S. H., to attack from the first draw east of knoll 627 to the Pleasant Hill S. H.—Grawmer road, exclusive.

The 3d Battalion will advance by the main cross street of Littlestown, a half mile west of this point; thence west of Pleasant Hill S. H., to attack from roadfork 598, inclusive, to a point in the hostile position south of the house 300 yards west of Grawmer.

Each of the attacking battalions will attach to it one of the 3d Infantry companies now at Pleasant Hill S. H.

Await further orders to advance beyond Pleasant Hill S. H.

The 1st Battalion, in reserve, remains for the present near knoll 637. The Machine Gun Company, in reserve, will follow the 2d Battalion at 400 yards.

Band to the surgeon. Slightly wounded to knoll 726, 2,000 yards southeast of Littlestown on the Baltimore Turnpike.

1-45 P. M.

Empty combat wagons to roadfork 629, near knoll 726.
Messages to this point for the present.

2d Battalion, 2d Infantry

Upon receipt of the colonel's order, the major of the 2d Battalion rode back to his battalion. South of the crest southeast of the eastern exit of Littlestown, the major issued ammunition, then directed the empty wagons to proceed to roadfork 629 to refill and return to the eastern exit of Littlestown. The major then marched the battalion under cover of the cornfields, through the eastern part of Littlestown, until its head approached the farmhouse about 450 yards northwest of the eastern exit of the town. Halting the battalion, he assembled the captains and, at 2-15 P. M., ordered:

2-15 P. M.

The enemy is in position along an east and west line about 2,500 yards north of this point. Our army is attacking. The 2d Brigade is on our right; the 3d Battalion on our left. The 1st Battalion, in reserve, is now on the hill three quarters of a mile to our right front. Two companies of the 3d Infantry are near Pleasant Hill S. H. Artillery supports from east and west of Littlestown.

We will advance to attack.

Companies E and F will constitute the first line, Company E on the right, the base company. Deploying interval. Company E will march so as to pass just west of the yellow house beyond the timber to the north (pointing to R. Sell).

Companies G and H, Company G on the right, will follow in support at 400 yards.

Battalion headquarters will follow the center of the first line at 50 yards.

Make your preliminary arrangements for starting, but await my signal to advance from this cornfield.

The major sent his adjutant up on the farm building to watch for the 3d Battalion. When its advance was reported in line with the Tollgate, the major signalled to the 2d Battalion to start.

2-45 P. M.

By 2-45 P. M., the leading companies were lying down northeast of Pleasant Hill S. H., and one hundred to two hundred yards south of the crest, which was occupied by a thin line of company scouts. Company A of the 3d Infantry was the nearest to Pleasant Hill S. H. With this company, the battalion now had three companies in the first line; the two in support were near the stream line three to four hundred yards to the south.

The major assembled his five captains on the crest, in front of the center company. The wooded knoll 627 was in full view to the north, and indications of an occupied trench, somewhat south of the timber line, were to be made out. The major directed:

Our objective extends from the roadfork (598) at 11-00 o'clock, to the draw east of the wooded knoll (627) at 12-00 o'clock.

Company A, 3d Infantry, will attack the hostile front from the roadfork (pointing to 598) to the green house 9 fingers east thereof, exclusive.

Company F, from the green house, inclusive, 8 fingers to the east thereof.

Company E, from the draw east of the wooded knoll (627) to a point 8 fingers east of the green house.

Await my order to open fire.

Company F

When the major had finished his assignment of objectives, the captain of Company F assembled his platoon leaders. Then, all prone on the crest where the center of the company would be in its first firing position, he directed:

Reference, green house at 11-30. Extending due east from that house and about 50 yards this side of the timber on the wooded knoll (627), catch the Red trench.

That trench, from the green house to a point 8 fingers east of the house, is our objective.

Each platoon of the right half of the company will fire on the entire eastern half of the objective; each platoon of the left half of the company will fire on the entire western half of the objective.

Aiming point, bottom line of house fence and bottom line of timber on the knoll.

Give me the range.

After hearing from his range finders, and concluding that the distance to the timber was 700 yards, the captain announced, Range 650, in order to pull the sheaf of fire into the hostile trench.

Each platoon leader then went to where the center of his platoon in the firing position would rest, brought his assistant and his squad leaders into place, lying down, on both sides of him; and directed somewhat as follows:

Reference, green house at 11-30. Look for hostile trench running out at 3-00 o'clock from green house. That house and trench is the company's objective. The target of this platoon is that house and four fingers of the trench east of it. Aiming point, bottom line of house fence and bottom line of timber on the wooded knoll. Range 650.

When the major ordered the battalion into its firing position, Company F, to avoid exposure, crawled the last few feet. Each squad leader then rapidly pointed out the platoon target to his men, now using sight leaves in designating its boundaries; cautioned the squad to take the first, or second, fourth, etc. depending upon the squad's position; gave the aiming point and the range; and, when certain that all his men understood, each squad leader signalled ready to his platoon leader.

The orders and arrangements in the other companies were similar, except that in the first firing position, Company E, on the right, was unable to fire on its proper objective because of the small intervening ground fold.

3d Battalion, 2d Infantry

The 3d Battalion issued ammunition in the street of Littlestown a few hundred yards north of 609. Empties were ordered to roadfork 629 to refill and come up to the northern exit of Littlestown. The major then marched the battalion to cover of the cornfield east of Tollgate, and, at 2-20 P. M., issued orders to his captains as follows:

The enemy is in position on an east and west line some 2,500 yards north of this point. Our army is attacking. The 2d Battalion is on our right; the 1st Infantry on our left. Two companies of the 3d Infantry are near the crossroads 1,500 yards north of us. Artillery supports us from positions east and west of Littlestown.

This Battalion will advance to attack.

2-20 P. M.

Companies I and K will constitute the first line; Company K on the left, the base company. Company K will march on the unpainted house (pointing to one 450 yards southwest of Pleasant Hill S. H.).

Companies L and M will follow, in support, at 400 yards. Company M on the left.

Battalion headquarters will follow the first line companies at 50 yards.

The 3d Battalion found Company B, 3d Infantry, deployed in the draw west of Pleasant Hill S. H. Companies I and K deployed in the draw southwest of Company B, with intervals of fifty yards between companies. The ridge in front was occupied by the scouts. Company L halted in the timber just northwest of 558W, and Company M in the patch 300 yards farther west. The major as-

sembled the five captains at the farmhouse 400 yards north of 558W. From the stream junction 700 yards west of Pleasant Hill S. H., the enemy had cleared the timber to the north and northeast right up to the 564—598 road. The house 700 yards west of roadfork 598 was on fire. The major, at 2-40 P. M., directed:

Our objective extends from the roadfork north of us (pointing to 598) to include the white house at 11-00 o'clock (pointing to the one 300 yards west of Grawmer).

Company B, 3d Infantry, will attack the hostile front from the roadfork (598), inclusive, to the red barn about 5 fingers west of the roadfork, inclusive.

Company I will attack from the red barn, exclusive, to a point 5 fingers west thereof.

Company K will attack from one finger east of the burning building to a point 6 fingers east thereof.

Await my orders to advance from the present positions of the companies.

2-40 P. M.

The orders and arrangements in the companies of the firing line of this battalion were very similar to those in the 2d Battalion. Before opening fire, however, the two left companies swung forward beyond the crest until Company K's left was north of the stream fork 700 yards west of Pleasant Hill S. H. While waiting for orders to advance, the ground scouts of the first line companies worked through the timber felled by the enemy, to determine the practicability of its passage by heavy skirmish lines. Until the battalion started this advance, battalion headquarters remained at the house 400 yards north of 558W. There one orderly held the horses, and one was in semaphore communication with the two companies in support. The sergeant major established semaphore connection with regimental headquarters; the adjutant assisted the major in the observation of the enemy and of the first line companies.

1st Battalion, 2d Infantry

The 1st Battalion, it will be remembered, had two companies in the timber at crossroads 602 and two on, and south of, knoll 637. Its extra ammunition had been issued some hours before. The empty combat wagons were standing south of knoll 647. Upon receipt of the colonel's message of 1-35 P. M., the major caused the following to be sent:

1st Bn.,

Knoll 637,

2 Sept., 15, 1-40 P. M.

1-40 P. M.

Private J (teamster in charge ammunition wagons):

Conduct am. wagons by routes, covered from view to north, south of LITTLESTOWN to ammunition distributing station near roadfork 629, 1½ miles southeast LITTLESTOWN on BALTIMORE TURNPIKE.

Refill and return to LEFEVRE exit LITTLESTOWN.

K,

Adj.

The major then sent copies of the following to the three company commanders not with him.

1st Bn.,

Knoll 637,

2 Sept., 15, 1-50 P. M.

F. O. No. 6.

1-50 P. M.

1. The army is attacking, 2d Brig. is on our right. Our regiment attacks via PLEASANT HILL S. H.

2. This Battalion, in reserve, remains for present as now stationed.

K,

Maj.

Battalion headquarters was at the house two hundred yards due south of knoll 637. There, the major had an extended view towards the enemy and could also watch the advance of the 2d Brigade. He was in semaphore communication with all of his companies, and when regimental headquarters moved up to the vicinity of Pleasant Hill S. H., with that too.

Machine Gun Company

The machine guns followed the 2d Battalion to the vicinity of the farmhouse 450 yards north of the eastern exit of Littlestown; and thence under cover of the timber along the stream to the north and southeast of 558W, into the patch 400 yards west of R. Sell. The combat wagon unloaded its ammunition at the farmhouse 450 yards northwest of the eastern exit of Littlestown, and proceeded to the distributing station to refill. The ammunition mules of the gun squads unloaded their ammunition in the timber west of R. Sell, and brought up that dropped by the combat wagon.

Regimental headquarters followed the 2d Battalion to the house 400 yards southeast of Pleasant Hill S. H.

There, semaphore connection was at once established with each of the three battalions and with brigade headquarters on knoll 621, near the Tollgate.

**Progress of the Engagement—Incidents and
Actions, 3-30 to 5-30 P. M.**

By 3-30 P. M., the two first line brigades had completed their deployment as indicated in the preceding orders and statements. (See sketch No. 1). Each brigade commander promptly telephoned the fact of completion to division headquarters. The division commander, at 3-30 P. M., telephoned the 1st Brigade: *Advance and attack.* To the artillery brigadier he said: *The infantry is advancing. Support it's attack.* 3-30 P. M.

Headquarters of the 1st Brigade immediately semaphored its attacking regiments: *Advance and attack.* Each regimental commander transmitted the order by the same means to his first line battalions. The infantry companies of those battalions not already engaged, moved into their first firing positions and opened fire.

The advance of the 4th Infantry against knoll 647, with its threat of an envelopment, very quickly led to an extension of the Red firing lines to roadfork 613. The commander of the 2d Brigade immediately directed the colonels of the 5th and 6th Regiments:

The enemy has extended his lines to roadfork 613. The 6th Infantry, passing east of Valley Grove S. H., will attack at once toward roadfork 613. The 5th Infantry will cross the stream 500 yards east of this point (Wentz farm) and, at 500 yards distance to the right rear of the 6th Infantry, will march on the bridge east of Bashore Mill.

Brigade headquarters will follow the 6th Infantry.

He then sent the following message:

2d Brig.,
WENTZ farm,
2 Sept., 15, 4-00 P. M.

Col. M (4th Inf.):
6th Inf. attacks at once towards roadfork 613.

C,
Brig. Gen.

By messenger.

The 6th Infantry was in the draw east of Christ S. H., massed very close to the large branch of the Little Cone-wago. The colonel rode rapidly to his regiment, issued ammunition, turned the Band over to the surgeon; then immediately set the regiment in march due north, west of, and close to, the main stream. The colonel directed the adjutant of the 3d Battalion to take half a dozen of the mounted orderlies and patrol rapidly ahead of the regiment to Bashore Mill. The colonel also directed the leading major to cause a platoon to gain a few hundred yards ahead, by increasing the gait, to secure the march. The remainder of the regiment marched steadily north in column of squads, keeping the stream about 100 yards to the right. At the farmhouse 550 yards northeast of Valley Grove S. H., the colonel, at 4-20 P. M., issued orders to his assembled majors and the commander of the machine gun company, as follows:

The enemy has extended his left to the roadfork two thousand yards to the northwest (613).

We will attack in that direction.

The 1st Battalion, passing east of this house, will advance to attack; its left taking the direction of the green house (pointing to the one 500 yards southeast of roadfork 613)—roadfork 613.

4-20 P. M.

The 2d Battalion will advance west of this house (550 yards northeast of Valley Grove S. H.) to attack from roadfork 613 to a point 300 yards west thereof.

The 3d Battalion and machine guns, in reserve, will move to cover near Bashore Mill, a thousand yards north of this house. Patrol strongly to the north and northwest. The hostile cavalry brigade was last reported about a mile and a half northwest of Bashore Mill. Messages to the reserve.

The advance of the 6th Infantry reached the general line of the clump of timber 700 yards west of Washington Meeting House, roadbend 500 yards west of A. J. Bair; when the enemy's infantry attacked in strength towards the southeast from the line, knolls 622—603—607—A Rifle, while strong forces of dismounted cavalry attacked at the same time from the direction of Dome, east of Brushtown. The 6th Infantry hurried its 3d Battalion and machine guns to the clump of timber 700 yards west of Washington Meeting House. Headquarters of the 2d Brigade had followed the 6th Infantry to the farmhouse 600 yards northeast of Valley Grove S. H. General C immediately ordered one battalion of the 5th Infantry into the gap between the 6th

and the Conewago, and one battalion to support the 1st Cavalry. The 1st Cavalry had moved from Sells Station abreast of the 5th Infantry's advance, and from southeast of Brushtown it opposed this enveloping movement of the Red cavalry. Reinforced ultimately by another battalion of the 5th Infantry, the 1st Cavalry, with its left driven into the eastern edge of the large patch of timber south of Emlett, was finally able to stop the Red cavalry. By all of these dispositions, the enemy's energetic counter attack was everywhere gradually brought to a standstill. So that by 5-30 P. M., although suffering severe losses both from small arms and artillery fire from northwest of knoll 647, the 2d Brigade and the cavalry seemed able to prevent a further hostile advance in their front; but, at the same time, were unable to gain any ground themselves. Everywhere along the extended front of the division, the opposing firing lines were practically continuous and hotly and closely engaged. Casualties in the Blue lines were heavy; and, in many sections of the line, ammunition was running low. The Blue firing line began at Alloway Creek west of the house 200 yards north of roadfork 564; passed north of that house; then nearly due east to the roadbend 300 yards southeast of roadfork 598; thence to the roadbend 500 yards west of A. J. Bair; thence northeast to include the clump of timber 700 yards west of Washington Meeting House; thence on a gentle curve to cross the Conewago 300 yards north of 525 W; whence it jumped to the eastern side of the large grove southeast of the Hartzel farmhouse. To obtain and maintain this long line in full strength, nearly all the supports and regimental reserves had been absorbed.

The reports of General A's information officer west of the Alloway indicated that both the 2d and 3d Divisions were fighting desperately, but with no decision yet in sight.

The Decision

GENERAL A'S ESTIMATE OF THE SITUATION

General A still has one brigade in reserve. If he is going to make any use at all of it, the time therefor seems to have arrived.

The enemy appears to have thrown all of his reserves, on the eastern flank, into a determined counter attack. It is very possible that, if the Blue reserve brigade should advance through Brushtown, it would find very little to oppose it, and the hostile left would be turned and broken. The advent of the reserve brigade there, should bring an immediate decision.

But the division is already dangerously extended. From the Alloway to the cavalry's right, its firing line is about $4\frac{1}{2}$ miles in length. To move the 3d Brigade beyond the cavalry and deploy it there, would take more than two hours; and in two hours it will be dark. Artillery would have to be taken from its present position to go with the brigade. During the progress of this movement, the enemy, with the lessened artillery pressure, would quite likely take the offensive and sweep General A's sorely tried and very thin lines from the field. General A, therefore, because of the lack of time to complete the movement and attack before dark, and because of the dangerous extension involved, decides against the use of the reserve brigade beyond the Little Conewago.

The enveloping form of the attack has produced a salient in the Red lines about knoll 647; and that salient must be suffering severely under the consequent concentration of infantry fire it is receiving. It is possible to add very greatly to the Blue fire effect by turning the greater part of the artillery fire in that direction, and without moving any of the batteries. The reserve brigade, thrown straight towards a limited section about knoll 647, can there more quickly intervene than in any other direction. The Blue firing lines are still some six hundred yards from the Red trenches; yet the order to advance everywhere, a strong concentration of the artillery and machine guns on the front selected, and the approach of a whole fresh brigade, will probably enable the firing lines to close in materially before the first lines of the reserve brigade join them. Then the fresh troops must carry them over the remaining distance. The front of attack must be broad enough to give full play to the brigade's strength, but no greater. The division commander, accordingly, decides to send his re-

serve brigade at the front Grawmer—roadfork 613.

General A's Orders

At 5-30 P. M., the chief of staff telephones to the commander of the 3d Brigade:

Your brigade will advance at once for the decisive attack against the hostile front between roadfork 598 and roadfork 613.

5-30 P. M.

Send your machine guns ahead to assist in fire preparation from crest 500 yards northeast of Pleasant Hill S. H.

The Decisive Attack

3d Brigade

The brigade commander is with his colonels on knoll 766, two miles southeast of Littlestown. He immediately orders as follows:

This Brigade makes the decisive attack.

The 7th Infantry will advance via Lefevre, on a front of 1,000 yards, to attack from the burning house near the crest of knoll 647, inclusive, to roadfork 613. This regiment will not pass Lefevre until the advance of the 8th Infantry passes Littlestown.

The 8th Infantry will advance via the eastern exit of Littlestown, on a front of 1,000 yards, to attack from the burning house on knoll 647, exclusive, to roadfork 598.

The 9th Infantry, in reserve, will follow the center of the first line at 500 yards.

Every effort will be made to close at once with the enemy.

The machine gun companies of the three regiments, under Captain M, 8th Infantry, will move rapidly ahead to the crest 500 yards northeast of Pleasant Hill S. H. to assist in fire preparation for the assault. Target: hostile lines from roadfork 598 to 613.

Brigade headquarters will be between the 7th and 8th Regiments.

The colonel of the 7th Infantry issued at once extra ammunition, ordered empty wagons to proceed to 733 as soon as the brigade was out of the way, piled packs, had the band report to the surgeon; then conducted the regiment, in column of squads, along the eastern edge of the timber on knoll 766 and the deep draw to the north, towards Lefevre. Before starting, the machine guns were directed to report to Captain M. The field officers trotted ahead to knoll 652, south of Lefevre; where at 5-55 P. M., the colonel directed:

Our brigade makes the decisive attack, The 8th Infantry is on our left; the 9th behind us.

This Regiment attacks the hostile front from the burning build-

ing on knoll 647, inclusive, to the roadfork (613) 1,000 yards east of that building.

5-55 P. M.

The Regiment, provisionally, will deploy in two lines: 1st and 2d Battalions, in the order named from left to right, 1st line; 3d Battalion, 2d line.

First line along railroad north of this point, left at fence corner 250 yards north of this knoll (652). Each battalion on a front of 400 yards, with two companies in the first line, interval between battalions, 200 yards.

Second line behind the timber south of this knoll (652).

At my signal the Regiment will advance in line of columns, the left of the 1st Battalion marching on the burning building on knoll 647. The Regiment will close with the enemy at once.

The 3d Battalion will follow the 2d at 400 yards.

Regimental headquarters in the center of the first line.

The 8th Infantry, after similar preparatory dispositions, moved over the ridge under cover of the timber east of knoll 724 and down the stream heading thereat. The regiment deployed with its first line on the Littlestown—Lefevre road, and then advanced with its left taking the direction, Pleasant Hill S. H.—roadfork 598.

The 9th Infantry, also in four lines of columns, passed west of Lefevre.

The Machine Guns

The consolidated machine guns of the brigade were conducted rapidly ahead under cover of the eastern buildings in Littlestown, the cornfield north thereof, the patches of timber along the stream lines east and southeast of 558W, and up the stream bed which passes 500 yards southeast of Pleasant Hill S. H., to the crest where that stream heads. Every effort was made to get into position along that crest without attracting the hostile attention. The machine guns of the 2d Infantry were already in position in readiness midway between Pleasant Hill S. H. and road bend 617. Those of the 3d Brigade went in to the right of those of the 2d Infantry. Intervals were increased so that the 4 companies occupied a front of about six hundred yards. To the right company, Captain M assigned the hostile lines from knoll 647, exclusive, to roadfork 613; to the center company, knoll 647; and to the 3d company, knoll 647, exclusive, to knoll 627, exclusive. The guns of the 2d Infantry were left to cover the remainder of the de-

cisive front. Ranges were obtained and all preliminary measures taken for firing, but the machine guns remained quiet until the advanced lines of the 3d Brigade were drawing near, until the whole division was struggling to advance, and a decision was evidently a matter of a few minutes only. Then the guns, firing over the attacking infantry, began to spray the hostile line.

The combat wagons unloaded their ammunition at the northern edge of the cornfield north of the eastern exit of Littlestown, and went back to refill. The ammunition mules of the gun squads also unloaded theirs upon nearing the position selected for the guns, and returned to this cornfield to reload.

Events, 6-30 to 7-30 P. M.

By 6-30 P. M., the leading formations of the 3d Brigade were approaching the line Pleasant Hill S. H.—Todt. The division commander directed his chief of staff to telephone to the 2d and 3d Brigades:

The Division will assault.

This was promptly transmitted by semaphore through regiments to all battalions. At the same time General A directed the artillery brigadier:

Concentrate all practicable fire on hostile front from crossroads 598 to roadfork 613.

The 1st Brigade still had 8 companies of the 1st Infantry and its machine guns in reserve. General B immediately ordered the 1st Infantry to advance, with its left on the 573—544—564 road, to assault. Its machine guns were rushed ahead to roadfork 564. The battalions advanced abreast in line of columns.

All remaining supports and regimental reserves throughout the division were ordered forward, straight to their front. G. G. was being signalled everywhere from rear to front. The first line battalions began desperate efforts to gain ground by rushes, and in the next fifteen minutes they made an average gain of perhaps a hundred and fifty yards. By that time, the 3d Brigade, with its first

echelon a strong skirmish line and its succeeding echelons in line of columns, was closing rapidly on the firing lines. The concentrated artillery and machine gun fire rose to the utmost possible intensity. Trumpets from the direction of division headquarters were heard sounding the *Charge*, which was immediately taken up by those of all organizations. At 7-00 o'clock, the hostile trenches on knolls 627 and 647 were carried. The division commander, who was still on the house in Littlestown, directed the artillery brigadier:

Get a battalion of artillery to the 627—647 line at once.

Then the general with his escort and personal staff galloped towards knoll 647.

Shortly after the trenches on 627 and 647 were carried, the Reds evacuated their trenches west of the Pleasant Hill S. H.—Grawmer road, and their lines north and northwest of Washington Meeting House also retired very promptly after the appearance of the Blue artillery near knoll 647. The Blue firing lines pursued by fire as long as the Reds offered targets. In this work of destruction, the firing lines were greatly assisted by the machine guns, which were all rushed forward as the Red trenches were overrun, and a battalion of artillery, the firing batteries of which came forward rapidly from Littlestown.

Advance of Accompanying Batteries

(CAPTAIN SCOTT)

At 6-30 P. M., Gen. E issued the following orders to Major A, 1st L. A., by telephone:

Division assaults at once. This battalion is designated to advance to the support of our infantry when it carries the hostile position at hills 647—627. Take only firing batteries. Battery C subject to your orders. Make all preparations consistent with carrying on your present duties.

Orders of Major A

By agent to Battery C:

Division assaults at once. This battalion is designated to advance to hostile position, hills 647—627, when it is carried by the infantry. Select your route, and be ready to advance with firing bat-

tery only, when I give the word. Meantime continue your present duty.

A,
Major.

To Captains A & B, and Lt. D, agent, C. Tn.:

The general assault is about to begin, and it is expected that hills 647 and 627 will be carried. This Battalion is to advance to that position. Fire will be continued as already directed until I order the advance. Only firing batteries will advance. See that limbers and caissons are kept full. Combat trains and limbers will come up to the batteries at once.

Route for Battery A: East end of Littlestown—602—Pleasant Hill S. H.—the right hand road just beyond it. Should you come under fire near 602, go across country in line towards 647.

Route for Battery B: The pike to the Tollgate—right hand road to Pleasant Hill S. H.—right hand road beyond it.

March prepared for action. Send men out now to cut all wire fences along your lines of march.

The gait will be a trot out unless a battery comes under artillery fire, in which case the gallop will be taken.

As soon as combat trains are filled, they will follow the firing batteries.

Reel cart will follow Battery B. Wire will be laid to the end of the reel, and a station established to maintain communication with Brig. hdqrs.

I will ride in advance of Battery B.

Captain D, go at once to Pleasant Hill S. H. with the scouts and, as soon as possible, reconnoiter positions for the batteries. Pick up the battery reconnaissance parties (now with the infantry) and use them.

Telephone to Gen. E:

Battery A will go by 602—Pleasant Hill S. H. towards hill 647.

Battery B by Tollgate—Pleasant Hill S. H. towards hill 647.

Battery C takes its own route. Request that you telephone direct to Captain C when he is to move.

Will be ready to move in a few minutes.

Will lay wire from here.

At 7-02; a message was received from General E:

1st Bn. 1st L. A. Move out.

Major A directed:

Move out at once.

He then mounted and, accompanied by his agents, orderly, and musician, rode at a full gallop via the Tollgate to Pleasant Hill S. H., arriving there at 7-10.

A marker met him there with the information that Captain D had gone ahead on the right hand road. Major A then galloped on and met Captain D near the small or-

chard north of 617. The latter reported that the enemy was retiring everywhere, and that a battery to the east of the road on hill 647, and another west of the road could get good positions.

Meet the batteries as they come up and put them in action, as you suggest, to fire on all targets. Then look for hostile targets.

I will go over to hill 627.

Corporal Z, meet Battery C. Have the battery commander meet me at that roadfork (pointing to 598). Battery to follow him.

Major A then galloped across to 627 and north along the west edge of the woods. Hostile lines were moving off towards the north and northwest. Major A rode rapidly south to 598, where he met Captain C.

Go into action just north of that farmhouse (200 yards north-east). From the woods beyond the farmhouse you will see the hostile infantry. Fire on it.

The Pursuit

(CAPTAIN FISKE)

The 9th Infantry, in reserve to the 3d Brigade, came steadily forward. South of knoll 647, its colonel was met by an aid who carried General D's instructions to pursue towards Whitehall.

The regiment had been advancing in two lines, the first line consisted of two battalions, the second of one. Each battalion was in two lines, of two companies each. Each company was in column of squads. The colonel rode over to the left battalion and directed its major:

We pursue towards Whitehall. Change direction to the left and march on the north edge of the timber on knoll 627. Halt when your advance approaches the crest.

Riding then to the right battalion, he directed:

We pursue towards Whitehall. The Regiment changes direction three quarters left. Halt your battalion when its advance reaches the crest northeast of the timber on knoll 627, where the 1st Battalion will halt. Then join me midway between the battalions.

The change of direction completed, and the three majors having reported, the colonel pointed out the Schild—Whitehall S. H. road, its fences in the growing darkness could still be made out, and directed:

We will advance on Whitehall S. H., the 1st Battalion, the base battalion, west of that road (Schild—Whitehall S. H.), the 2d Battalion east of the road. Interval 400 yards. The 3d Battalion will follow the center of the first line at 300 yards. I will follow the first line battalions at 100 yards. Take up the advance.

The major of the 1st Battalion rode back to a point between his two first line companies, where his captains, during his absence, had been assembled by the adjutant, and directed:

We pursue towards Whitehall. Company A, on the right, will pass about two hundred yards west of that house (pointing to the Schild farmhouse) and then west of the road (Schild—Whitehall S. H.) towards Whitehall S. H. Company B will maintain its interval of 200 yards. Each company will send a deployed platoon 200 yards to its front. Company D (on the left of the second line pair of companies) will send a platoon 300 yards to the left of Company B, to secure the left flank.

The orders and arrangements in the 2d Battalion, on the right, were similar. A platoon from one of the companies in support covered the right.

A Night Attack

Shortly after 7-30, darkness had fallen.

When the regiment reached the Schild rise, the leading platoons, two hundred yards west thereof, were fired upon from the stream towards Whitehall S. H. Patrols to the north and to the south also drew heavy fire from across the stream, and for a thousand yards in each direction. The regiment halted while these patrols were reconnoitering.

The colonel must decide at once: Shall the regiment attack or, if not, what other action can be taken?

The development of hostile fire from so extended a front indicates considerable, and probably very superior, Red strength. But on the other hand, the Reds' willingness to open fire may indicate a considerable degree of demoralization. The enemy in front of the 9th Infantry consists, very probably, of the same troops that, but a short time before, were driven from their trenches, and whose morale must therefore be greatly lowered. To beat them again, in the darkness when their fears will perhaps

many times magnify the Blue numbers, may consequently be an easy task; and their defeat now can be expected to turn the Red retreat into a rout. Of course, in attacking, the colonel runs the risk of striking fresh troops brought from some other part of the field, and whose morale may be anything but impaired. There is only one way of learning which is the case, that is, by a prompt and energetic attack. And, as a matter of fact, the colonel considers that he has very little choice in the matter. He has been ordered to pursue. He could hardly stop as soon as he runs into an enemy.

The colonel had assembled his majors while waiting for the reports of his flanking patrols. At 8-00 o'clock, he directed:

We will attack towards Whitehall S. H., with the bayonet.

8-00 P. M.

The right battalion north of the road (Schild—Whitehall S. H.); the left battalion, the base, south of this road; each on a front of 250 yards.

The 3d Battalion, in two lines at 100 yards distance, will advance to this country road with its right 400 yards south of the Schild—Whitehall S. H. road.

Make your preparations promptly and quietly. Report readiness and await my order to advance from this ridge. Place white bandage on the left arm. I will remain at this roadfork till the advance starts and then join the 3d Battalion.

The major of the 1st Battalion returned to his battalion, assembled his captains, and directed:

The regiment attacks with the bayonet. The 2d Battalion north of the road to our right. The 3d Battalion, in reserve, takes station to our left.

This Battalion will attack south of this road.

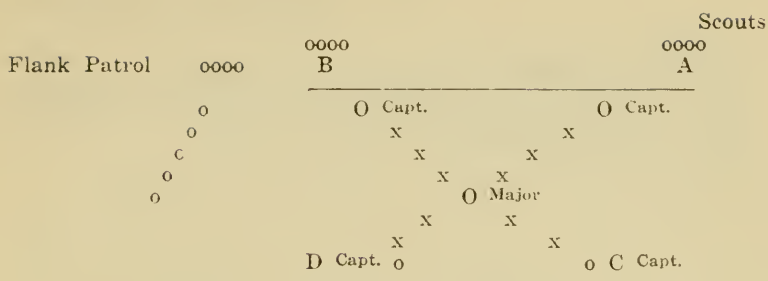
Companies A and B, first line; C and D, second line.

Distance between lines 100 paces. The right of Company A will advance parallel to the road and 25 yards south thereof. Company scouts will precede the battalion. Company D will cover our left by a combat patrol at 100 paces.

Lines will deploy without interval, men grasping arms of those on their left. Fix bayonets. Place white bands on left arms. Advance slowly and quietly. At my order to charge, the men will cheer and assault.

I will march in the center of the square. All four captains will each establish a close chain of connecting files with me for the verbal transmission of orders. Form up and then await my order to advance.

FORMATION 1ST BATTALION



As soon as the battalion had formed up, the major sent his adjutant to report the fact of its readiness to the colonel. When the adjutant returned with the colonel's order to advance, the major passed a low, *Forward, March*, by the connecting files to the four captains, and the carefully linked battalion moved slowly forward. As it advanced, the scouts ahead, from time to time, sent individuals back to report; finally with word that the enemy seemed to be in strength just west of the shallow stream. The advance quietly continued till the enemy opened fire; then the major shouted *Charge*, and the battalion cheered and closed.

The attack was only momentarily successful. Greatly superior hostile forces immediately closed in a counter attack about the two battalions, which were thrown back east of the stream with heavy loss and in great disorder. The 3d Battalion had started to advance, when the sounds across the stream made it evident that doing so would only involve the last battalion in defeat. From the reports of the returning officers, the colonel decided that the enemy was much too strong to be handled by the one Blue regiment. The enemy did not pursue the beaten battalions. The colonel directed the major of the 3d Battalion:

You will secure this rise (Schild), and will strongly patrol towards Whitehall.

I shall take the remainder of the Regiment to the Grawmer farm, 500 yards to the southeast.

The colonel at once wrote and forwarded the following report:

9th Inf. House 500 yds. N. W. GRAWMER,
2 Sept., 15, 8-30 P. M.

General D:

West side ALLOWAY held by strong hostile forces. I attacked with two battalions towards WHITEHALL S. H., but was repulsed at ALLOWAY with heavy loss. Shall reorganize beaten bns. at GRAWMER farm. Remaining bn. outposts SCHILD crest, west of ALLOWAY, and patrols towards WHITEHALL.

K,
Col.

BIVOUAC DURING COMBAT

Division Headquarters to 9-00 P. M.

The division commander, with his chief of staff, aids, and escort, rode via Pleasant Hill S.H. to knoll 647. Noting that the work of reorganizing the badly mixed regiments was going rapidly and systematically ahead under the direction of the brigade and regimental officers, and that pursuit had been ordered, General A abstained from any interference therewith. Sending word to the 1st and 3d Brigades of his temporary location, he moved back to Pleasant Hill S. H. This schoolhouse was immediately connected by telephone with the headquarters building in Littlestown. There, the General waited quietly for reports from the 9th Infantry, the 2d Brigade, and the 1st Cavalry.

About 8-00 o'clock, he directed the artillery brigadier:

Leave one battalion in readiness south of knoll 627, to report to and support the 3d Brigade. The remainder of the artillery will camp southeast of Littlestown. 8-00 P. M.

The following report was turned over to the signal troops for transmission:

1st Div.,
PLEASANT HILL S. H.
2 Sept., 15, 8-00 P. M.

C. of S., Army:

Have carried hostile trenches east of ALLOWAY. Am pursuing towards WHITEHALL.

A,
Maj. Gen.

By telephone and telegraph.

The facts stated in the above message had previously, however, been reported by an intelligence officer from army headquarters with the 1st Division. 8-00 P. M.

By 8-00 o'clock, the firing to the westward had greatly diminished in volume. Artillery fire had practically ceased, and that of rifles was rapidly dying away. The following was received:

1st Field Army,
KINGSDALE,
2 Sept., 15, 7-30 P. M. 7-30 P. M.

Gen. A.:

2d and 3d Divs. yet obtained no decision. Ammunition refilling

point, 1st Div. UNION MILLS; supply refilling point, and evacuation point, WESTMINSTER.

Army Hq. tonight, KINGSDALE.

By command, Gen. X:

L.
C. of S.

8-40 P. M.

By 8-40 P. M., the message of Colonel K, reporting the stoppage of the 9th Infantry's pursuit towards Whitehall, and the following by telephone, have come in:

2d Brig.,

FELTY S. H.

2 Sept., 15, 8-30 P. M.

C. of S.:

This Brig., with 1st Cav., has reached G. MARTZ—FELTY S. H.—Crossroads 633. Enemy strongly holds line WHITEHALL S. H.—GEBHARDT—crossroads 601. Have halted to reorganize.

8-30 P. M.

C,
Brig. Gen.

The division has made a long march and fought a hard fight. Every one of its regiments has been engaged. Its disorganization and fatigue are very great. Enough has been learned of the enemy to know that nothing less than an advance of the whole division would have much chance of gaining further ground. Such an advance is impracticable, certainly for some hours, until the men have eaten and had some rest. And then an advance would have all of the dangers and disadvantages inherent in a night attack. The enemy's flank has been broken; and the general reserves that he has evidently thrown in to stop the enveloping division, will probably be missed in front of the 2d and 3d divisions tomorrow. The simultaneous attack of the whole Blue army tomorrow morning should bring the combat to a successful issue. Tonight, however, the Red's every movement must be watched by Blue patrols, and an immediate attack made if the enemy starts to retreat. General A's orders follow:

1st Div.,

PLEASANT HILL S. H.

2 Sept., 15, 8-50 P. M.

Field Orders.

No. 5.

Gettysburg 3-inch.

8-50 P. M.

1. Our troops have driven the enemy to the line WHITEHALL S. H.—GEBHARDT farm—crossroads 601.
2. The Division will bivouac.
3. (a) 1st Brig., east and west of 558W.

(b) 2d Brig., on the line crossroads 633—FELTY S. H. It will secure from A. RIFLE to roadfork 610, 1,100 yds. southeast of WHITEHALL S. H. Patrol vigorously to SQUARE CORNER.

(c) 3d Brig., on the line knoll 647—GRAWMER. It will secure from roadfork 610 to stream junction 540 on ALLOWAY. Vigorous patrolling to ST. LUKE'S CHURCH.

(d) 1st Cav., near WASHINGTON MEETING HOUSE. Patrols to line BONNEAUVILLE—HUNTERSTOWN.

(e) Art. Brig., leaving one bn. with 3d Brig., will camp southeast of LITTLESTOWN. Sig. Bn. is attached to art. for camping.

(f) Engrs. in LITTLESTOWN. Provide security for camp of Art. and for LITTLESTOWN.

4. Reserve ration.

5. Hq. after 9-00 P. M. at K house, LITTLESTOWN.

A,
Maj. Gen.

Copies by messenger to 1st, 3d, and Art. brigades, and Bn. Engrs. Chief of Staff personally telephones extracts to commanding officers, 2d Brigade and 1st Cav. At same time the chief of staff directs 2d Brig. and 1st Cav. to send to Littlestown for copies. Read to C. O. Sig. Bn.

1st Div.,
PLEASANT HILL S. H.
2 Sept., 15, 9-00 P. M.

Orders.

No. 4.

1. Reserve ration.
2. One day's rations and forage of field train will join troops via LITTLESTOWN. These wagons will again be south of LITTLESTOWN —LEFEVRE by 4-00 A. M.

9-00 P. M.

3. Refilling point for ammunition, UNION MILLS.

4. Supply, WESTMINSTER.

5. Evacuate wounded and prisoners to WESTMINSTER.

6. Trains (less released) camp at UNION MILLS.

By command, Gen. A.:

X,
C. of S.

Copies by messenger to 1st, 3d, and Art. Brigades; Engr. & Sig. Bns.; copies to officers detailed to receive from 2d Brig. and 1st Cav.; by motorcycle to comdr. trains. Copies handed to chief surgeon and chief quartermaster.

3rd Brigade

As soon as the enemy no longer presented targets to the 7th and 8th regiments, the men of which were badly intermixed with those of the 1st Brigade and 4th Infantry, the brigade commander sent aids to notify the command-

ing officers of the 7th and 8th Regiments:

The 8th Infantry will assemble at the Grawmer farmhouse. The 7th Infantry, on knoll 647.

Meantime the 9th Infantry was continuing its steady advance to the northwest. Upon receipt of the division order for bivouacking, General D issued the following:

3d Brig.,
Knoll 627,
2 Sept., 15, 9-10 P. M.

F. O.

No. 4.

1. The enemy has been driven to the line WHITEHALL S. H.—GEBHARDT farm—crossroads 601.

The division bivouacs, 2d Brig. on the line FELTY S. H.—crossroads 633, 1st Brig. at 558W.

2. This Brigade will bivouac:

3. (a) 1st Bn. 1st L. A., on knoll 627.

(b) 7th Inf., on knoll 647.

(c) 8th Inf., about roadfork 598.

(d) 9th Inf., at GRAWMER farm. It will outpost the SCHILD rise from roadfork 610 to stream junction 540 on the ALLOWAY, and will patrol vigorously to ST. LUKE'S CHURCH.

(x) Fires will be carefully screened.

4. Reserve rations. One day's rations and forage will join troops via LITTLESTOWN.

5. Brig. Hq. at roadfork 598.

D,
Brig. Gen.

Copies to officers detailed to receive.

The three regiments proceeded to make themselves as comfortable as possible in the vicinities assigned them. They were thankful that the weather was mild, for without wagons they had no adequate means of bringing up their packs, now three and a half miles to the southeast. Some of the regiments managed to impress sufficient wagons, but most civilian wagons were already in the hands of the sanitary service. Each regiment had parties searching the line of advance for wounded, and collecting into the dressing stations those found.

Ammunition Service

By the attack order of the division, roadfork 629 and crossroad 733 were designated as ammunition distributing stations. By the chief of staff's message, the ammunition

train was released and ordered up to roadfork 727, a mile and a half northwest of Silver Run village. There it was met by a messenger from the artillery brigadier, directing the establishment of the distributing stations. The commander of the train sent forward the 1st Company to 629 and 733, immediately unloaded the 2d Company at 727, and, leaving a few men with the ammunition, started the company back towards Westminster to refill. By 5-00 o'clock the 1st Company was at the two stations ready to transfer its ammunition. It found empty artillery caissons at each station. Also the empty combat trains of the 1st Brigade were waiting at 629, and those of the 2d Brigade and 1st Cavalry at 733. As fast as emptied, the wagons of sections of the 1st Company went back, those from 733 by roadfork 768, to refill from the unloaded ammunition of the 2d Company. As soon as the combat wagons of the 3d Brigade were refilled, the 1st Ammunition Company unloaded at the two stations everything remaining, and by 7-00 o'clock was also enroute for Union Mills. The 2d Company met an ammunition column at Mt. Pleasant, refilled therefrom, and was at the distributing stations, 629 and 733, by midnight. The 1st Company refilled at Union Mills from the ammunition column, and was in reserve at 727 by 2-00 in the morning.

After refilling, the grouped combat wagons of the 1st Brigade proceeded, under cover west of Littlestown, to the drawhead south of Ash Grove S. H. Thence an agent was sent by each regimental train to locate regimental headquarters, learn of the ammunition status thereat, and report the location of the wagons. At dusk they were conducted by regiment to their organizations. The grouped trains of the 2d Brigade and of the 1st Cavalry passed Lefevre about 7-30 P. M. Regimental representatives went ahead to locate their organizations; then returning, conducted their wagons to the regiments by the Christ S. H.—Valley Grove S. H. road. The trains of the 3d Brigade moved forward from 733 at dusk via crossroads 602 and Pleasant Hill S. H.

The belts of all men of the infantry and cavalry were filled as soon as the combat wagons rejoined.

The wagons so emptied were immediately started for their proper distributing station to refill and rejoin. By 4-00 A. M., they were all back with their regiments and full.

Supply—Forage and Rations

Upon receipt of the division order, about 9-30 P. M., the train commander sent up to Littlestown one ration section of the field trains. The wagons reached Littlestown at 12-30 A. M. There they were met by representatives from each of the regiments and conducted to their organizations; one day's reserve ration for the men, one day's forage for the mounts and for the mules of the machine guns and combat train, were unloaded. The remainder of the field wagons stayed with the division trains at Union Mills. Although the ration sections were unloaded with the greatest expedition, it was nearly 4-00 o'clock before the last section returned to the south of the Lefevre—Littlestown line. They were then assembled, in accordance with instructions of the night before, at crossroads 689, and marched as a unit to Union Mills. As soon as the refilling station was designated, the 1st Section of the division supply train unloaded at Union Mills to refill the field wagons, and its empties started back to refill at Westminster.

Sanitary Service

The 1st Ambulance Company, which had been in the advance guard, attended to the wounded of the morning's engagement, assembling them in the houses and barns near 629 and 733. By 2-00 o'clock it had also established the slightly wounded station at knoll 726. It then began to requisition and prepare transportation for evacuating the wounded, already gathered and to be expected, at the slightly wounded station. The 2d, 3d, and 4th Ambulance Companies and 1st F. Hosp. Co. began to park at 4-00 o'clock in the fields south of knoll 766. They proceeded at once to assemble civilian transportation from the country as far east as the Conewago, remaining otherwise in readiness at 733 until sunset (6-30).

The following message was sent upon the recommendation of the chief surgeon:

1st Div.,
LITTLESTOWN,
2 Sept., 15, 4-00 P. M.

Comdr. Trains:
Release remaining field hospitals and order to LITTLESTOWN. 4-00 P. M.
By command, Gen. A:
X,
C. of S.

By motorcycle messenger.

At sunset all of the ambulance companies started to gain ground towards the troops. The 1st Company marched via Littlestown towards Ash Grove S. H., turning over its requisitioned wagons and slightly wounded station to the 1st Hospital Company. The 3 ambulance companies near 733 marched towards Lefevre. Enroute, the 1st Ambulance Company received orders to establish a dressing station near roadfork 564; the 2d Company to establish one midway between Pleasant Hill S. H. and roadfork 598; the 3d Company, west of the A. J. Bair farmhouse; and the 4th, at the farmhouses 300 yards southwest of Washington Meeting House.

Orders for these movements were issued by the chief surgeon, in each case after reference to, and approval by, the chief of staff.

The transportation of the 1st Field Hospital started also about sunset for Littlestown. Part of its personnel had been therein since 4-30 P. M., for the purpose of preparing suitable buildings for the great number of wounded to be handled; requisitioning labor, supplies, and vehicles of all sorts; and preparing the last named for the transportation of wounded to the rear. In this work of preparation, the 2d, 3d, and 4th Companies joined about 6-30; and, in requisitioning transportation as soon as the enemy's trenches were carried, the hospitals were assisted by one of the pioneer companies, detailed for that duty at the request of the chief surgeon.

Aid stations of all the first line regiments had been at work since 4-00 o'clock. Bands in all these organizations were assisting in collecting into them the wounded. As

soon as dressing stations were established, wounded began to be received, were given attention, and the work of transportation to Littlestown started. Dependence for this was not entirely upon the ambulances. The surrounding areas were systematically searched for country wagons, and everything located was impressed.

Each regiment, in addition to its band, sent detachments to search its area of advance and gather into the nearest station all wounded found.

By midnight, it was evident that the division had suffered between two and three thousand casualties. Several hundred wounded had by that time reached Littlestown.

Trains. Military Police

After the Ammunition Train and 1st Field Hospital had been released, the commander of the trains had under his control during the greater part of the day: the field trains, which remained in the camp of last night at Union Mills; the supply train, which he held during the day at Mt. Pleasant; and the engineer train and 3 field hospitals, which he sent up to Union Mills.

The field trains were in brigade parks, each in its camp of last night, and ready to move promptly, north or south. To facilitate a rapid movement to the south, if such became necessary, Colonel K caused representatives of the 1st and 2d Brigades and 1st Cavalry to reconnoiter the road to the south by, and east of, Pleasant Valley, with a view to sending their trains by that route, while the remainder of the field trains were using the Baltimore Turnpike.

The hospitals and engineer train were assembled off the road just north of Union Mills.

The service detachments with each brigade train: quartermaster sergeant, cooks, clerk, artificer, were held in one body at their several parks, except that Colonel K detailed 6 cossack posts from their numbers to take station on the four hills north and northeast of Union Mills, between the roadfork northwest of Union Mills, and at B. M. 545 to the southeast.

The supply train was also in park off the road at Mt. Pleasant, ready to move immediately in either direction. One platoon of cavalry and 2 platoons of infantry were at Mt. Pleasant. The infantry outposted the park; the cavalry patrolled the roads east and west.

The train commander had at Union Mills 1 platoon of cavalry, which patrolled the roads from Union Mills to the northwest, north, and northeast; both as a means of security and to obtain information about the routes over which the trains would probably have to move later.

Troop A, less these two platoons, and Company A, 9th Infantry, less two platoons, were sent on to Littlestown to take up the duties of military police with the division.

Colonel K remained at Union Mills.

Enroute to Littlestown, the company of infantry dropped a couple of squads near 727 to secure the ammunition company thereat. It arrived at Littlestown about 5-20 P. M., and immediately posted sentries about the town to preserve order both among civilians and soldiers, to arrest stragglers, to direct wounded and other detached men, to look out for and prevent fires and to receive Red prisoners. The cavalry, preceding the infantry by an hour and a half, immediately placed patrols on the Baltimore Pike from Littlestown to the Alloway, and northeast of the town to Christ S. H. South of town they patrolled the roads for a couple of miles. All stragglers were returned to their regiments, and order was required among the many wagons.

By 7-20, so many prisoners were being received that the infantry and cavalry of the military police were no longer sufficient. Report of this fact by telephone to the chief of staff resulted in the order below:

1st Div.,

PLEASANT HILL S. H.,

2 Sept., 15, 7-30 P. M.

Maj. G:

You will take over duties, commanding officer, LITTLESTOWN. Troops: Your Bn. Engrs. and M. P. now thereat. Comply with any instructions received from Lt. Col. K (C. O., M. P.) Provide security for artillery camp as well as town.

By command, Maj. Gen. A:

X,
C. of S.

By 9-00 o'clock nearly 500 Red prisoners had been received. The engineers then took over the entire duties of military police about Littlestown. Patrols from the mounted sections relieved the cavalry and kept a continuous patrolling: on the Baltimore Pike to the northwest, and from 573 north to roadfork 564; via Pleasant Hill S. H.; via cross-roads 602 to roadfork 613; by Lefevre to Washington Meeting House; and for two miles southeast of Littlestown on the Baltimore Pike. Particular attention was paid to the return of stragglers and the maintenance of order among the many trains now using the roads. For this purpose an officer was constantly on duty at the cross street in Littlestown.

The infantry and cavalry, convoying the prisoners, started the march back, reaching Union Mills at 12-30 A. M. Starting again at 8-00 A. M., the march was continued to Westminster, where the prisoners were turned over to the line of communications.

Part II On the Defensive

Situation I

(CAPTAIN FISKE)

A Blue army, of one cavalry and five infantry divisions, is concentrating on Gettysburg from the west to oppose a European invading army, based on Baltimore.

The 1st and 2d Divisions are passing the mountains by the Waynesboro Turnpike, the 3d, 4th, and 5th, by the Chambersburg Road; and the cavalry division, by the Shippenburg Road. The 1st Division camped for the night of March 16-17 between Fairplay and Emmitsburg; the 2d, near Fairfield.

Situation II

DIVISIONAL CAVALRY

(CAPTAIN ELTINGE)

(Use Geological Survey Map)

1st Cavalry, 1st Div., (Colonel F) on the evening of March 16th:

Troop B is with the advance guard of the division.

Troop A is with the trains of the division.

At 5-00 P. M., the regiment is distributed as follows: 5-00 P. M.

Field and combat trains and Band at Bridgeport.

Regiment, less 1st Sq., at woods $\frac{3}{4}$ mile northwest of Oregon School, accompanied by one pack radio section.

Troop C at Kingsdale, having been driven back from Pleasant Grove School by superior hostile cavalry, but pursued only by patrols.

Troop D at bridge $\frac{1}{2}$ mile east of Oregon School, having been driven back from Frisselburg, through Tyrone, by superior hostile cavalry. The enemy here has not attempted to force the bridge but is still in contact, having remained inactive for the last 30 minutes.

Troop C has not reported losses, but Troop D reports

8 men killed or missing, and 4 men and 8 horses disabled. now with the troop.

An officer's patrol from each of Troops C and D is still out or has been captured. That from Troop D reported by telephone from New Windsor at 3-00 P. M., when last heard from.

At 4-30 P. M., when the regiment was approaching its present location, two hostile aeroplanes passed overhead coming from the direction of Emmitsburg.

From all sources of information combined, Colonel F has learned that hostile cavalry accompanied by artillery was approaching Westminster at 1-30 P. M.; that the telephone and telegraph stations at Hanover have not worked since 3-30 P. M.; and that a hostile troop reached Marker's Mill at 4-00 P. M., but later disappeared to the southeast.

Connection with division headquarters has been established by telephone by way of Emmitsburg. Reports that the 3d Cav. reached Gettysburg at 4-00 P. M. and was reconnoitering toward Hanover have been received.

Colonel F decides to halt for the night.

Weather fair, temperature about 45°F. at 5-00 P. M.. moon rises at 4-00 A. M.

Pipe Creek is fordable with difficulty.

Required:

(a) Orders, messages, etc., issued from regimental headquarters from 5-30 P. M., till 8-00 P. M.; no new information of importance coming in before that time.

(b) Assume that between 8-00 P. M., and 11-00 P. M.. it has been learned that the division marches on Gettysburg tomorrow, the 1st Cav. to cover the movement; that a hostile column of cavalry and horse artillery, marching from Reistertown toward Westminster on the morning of March 16th, took two hours for the main column to pass a given point, exclusive of several smaller bodies that had previously passed; that a glow indicating numerous camp fires had been seen in the general locality of Union Mills; and that about 200 hostile cavalry passed through Littlestown at 5-30 P. M., moving northwest. Nothing else of importance is learned before 6-00 A. M.

Required:

Orders, messages, etc., issued from regimental headquarters from 8-00 P. M., till 6-00 A. M.

Solution**Requirement (a) :**

Colonel F, at 5-00 P. M., verbally to staff (except Q. M.) and commanding officer Machine Gun Troop:

We will halt for the night in the woods just south of Taneytown. I will now send forward one troop of the 3d Squadron to join Troop D. The surgeon will arrange to have the four wounded now with Troop D brought in by requisitioned wagons. The veterinarian will attend the injured horses of Troop D. Trains will be brought up to the troops. 5-00 P. M.

Colonel F, at 5-03 P. M., verbally to adjutant:

Have squadron and troop commanders assembled here at once. 5-03 P. M.

Colonel F, at 5-06 P. M., verbally to adjutant:

5-06 P. M.

Prepare report to division headquarters.

Colonel F, at 5-10 P. M., verbally to commanding officer Troop M (in presence of commanding officer, 3d Squadron):

Superior hostile cavalry, with artillery, is in the vicinity of Westminster. Both our contact troops have been driven back. Troop C is now at Kingsdale, five miles north of here, and Troop D is three-fourths of a mile southeast of here on this road. The Regiment will halt for the night at the woods just south of Taneytown. Troop M will move to join Troop D, and let its presence at the crossroads a half mile southeast of here be noticed by the enemy. The bridge held by Troop D will then be disabled, and a platoon of Troop M will replace Troop D at the bridge. By camp fires and by other means you can think of, lead the enemy to believe the two troops have halted for the night near the crossroads. After dark the two troops will silently withdraw, leaving the platoon of Troop M concealed in rear of the camp fires and with a post at the bridge. The surgeon will arrange for the removal of Troop D's wounded and the veterinarian will attend to its horses. At once send two men of each troop back by this road until they encounter a post, which I will establish later, that will direct them to me. I am going to look over the site for the bivouac. 5-10 P. M.

Adjutant, at 5-10 P. M., to Quartermaster, 1st Cavalry, by telephone: 5-10 P. M.

Trains will march at once to Taneytown. Ride ahead yourself for further orders. There will be a guide posted at the main crossroads in Taneytown.

5-14 P. M. Colonel F, at 5-14 P. M., to division headquarters by radio (message prepared by adjutant) :

My No. 5 reported Troop C in contact with the enemy at PLEASANT GROVE SCHOOL and Troop D in contact at TYRONE. Both troops driven back by superior hostile cavalry. Reports indicate hostile cavalry with artillery reached WESTMINSTER this afternoon. 1st Cavalry halts for night at TANEYTOWN, with one troop near KINGSDALE. Messages to TANEYTOWN, wire or radio.

NOTE:—By previous arrangement names of places are sent in code.

Colonel F, at 5-15 P. M., to assembled troop and squadron commanders and staff, verbally :

5-15 A. M. Superior hostile cavalry, accompanied by artillery, is in the vicinity of Westminster. Our contact troops have been driven back. Troop C is now at Kingsdale, five miles north of here, and Troop D is about three quarters of a mile down this road (pointing). Troop M will join it. The 3d Cavalry is reconnoitering through Gettysburg toward Hanover. This Regiment will bivouac for the night in the woods just south of Taneytown, but will not leave this point until after dark.

A noncommissioned officer and one man from each organization will be sent to report to me here at once, to be used in arranging the bivouac. As soon as they report, I will ride to the bivouac. Major Q (1st Sq.) and Lieutenant R (Adj. 1st Sq.) will accompany me. Troop L will go with me and will be used to establish an outpost for the bivouac.

Lieutenant Colonel G will take command of the Regiment during my absence. The enemy will be allowed to observe the presence of the Regiment here. Fires may be built and should be kept up after the Regiment withdraws. Two officer's patrols should be sent out at once, one by way of Markers Mill, and the other in the direction of Union Town. Information of the location and strength of the hostile main forces is desired. These patrols should remain out while there is a single chance to obtain the desired information.

I will leave a guide near Taneytown on this road to direct messengers to me.

5-30 P. M. Colonel F, at 5-30 P. M., to commanding officer, Troop L (while marching toward Taneytown) :

Troops L and M under your command will furnish the outpost. Troop M will fall back after dark by the road, leaving one platoon in contact with the enemy at the bridge two miles southeast of Taneytown.

Place a strong picket on each of the roads to the north, east, and south. They should be about one mile from camp and should protect themselves by the use of barricades and entanglements from being rushed. Pickets should be largely composed of dismounted men.

Videttes should be stationed well out from each picket. Hostile patrols may be expected from any direction.

It will be an hour or more before the Regiment reaches its bivouac, which will be in those woods (pointing). In the meanwhile,

small areas will be assigned to each organization for picket lines and for cooking. Straw for warmth while the men are resting will be provided and left at these areas. Such areas will be assigned to your two troops as well as the others, and your field wagons will be available there till midnight.

Send a noncommissioned officer and a man or two to join the other details from the troops that are to prepare the bivouacs. Horses not actually required at the outpost may be left at your picket lines if you find it desirable.

Establish a relay post near Galt to keep up connection with Troop C at Kingsdale. Take charge of the telephone switchboard at Taneytown, and post a guide at the main crossroads in that town to direct messengers.

After arranging the bivouac, I will rejoin the Regiment, and after dark will march it to those woods.

Colonel F, now near woods, at 5-37 P. M., to Major Q, Lieutenant R, and staff (except quartermaster) : 5-37 P. M.

Lieutenant R, take two orderlies with you, locate plenty of wood, hay and straw, arrange to have them delivered to camp and be ready to assist the quartermaster in making payment for them when he arrives. Place one orderly as a guide at the roadfork just this side of town to direct messengers to this point. On the arrival of the quartermaster you will assist him. Major Q will be in charge of the bivouac.

Colonel F, at 5-39 P. M., to adjutant : 5-39 P. M.

Troop C will remain on the Kingsdale—Harney road. Send medical and veterinarian attendance, rations, and ammunition to the troop. Direct reconnaissance by Troop C in the gap between that troop and the 3d Cavalry.

Colonel F, at 5-45 P. M., to Major Q and staff (including quartermaster, who has arrived) : 5-45 P. M.

Major Q, take these representatives of organizations for markers and lay out the bivouac. Picket lines will be on the north face of the woods. Bivouacs will be: 3d Squadron on the east face of the woods, 2d Squadron south face, and the remainder of the Regiment west face. The quartermaster will assist you. Arrange for wood, straw, and field trains, all to be easily accessible. I will rejoin the Regiment.

The adjutant, at 5-40 P. M., to the surgeon : 5-40 P. M.

Under the colonel's orders, I am arranging to send a requisitioned wagon with supplies to Troop C at Kingsdale. How much that troop has suffered is not known, but the services of a surgeon are probably necessary. The colonel desires you to have medical attendance ready at the main crossroads in Taneytown at 6-30 P. M., at which time a wagon loaded with supplies will start from that place under escort to go to Troop C.

Similar orders to veterinarian at 5-41 P. M. 5-41 P. M.

The adjutant, at 5-48 P. M., to the quartermaster :

5-48 P. M.

Troop C is to remain out for the night near Kingsdale. The colonel directs that you requisition a wagon and send that troop one day's oats, one day's rations, and six boxes of rifle ammunition.

Apply to commanding officer Troop L for an escort and start the wagon from the main crossroads in Taneytown at 6-30 P. M. The surgeon will have medical and veterinarian attendance for the troop meet the wagon at the same time and go with it.

Adjutant at 5-58 P. M., to commanding officer, Troop C (written message by double messengers) :

5-58 P. M.

Troop D has been pushed back from FRIZZELBURG to near OREGON SCHOOL by superior hostile cavalry. The 3d Blue Cavalry has passed GETTYSBURG and is reconnoitering toward HANOVER. The colonel estimates at least a hostile cavalry brigade with artillery somewhere in the vicinity of WESTMINSTER.

Our Regiment halts for the night at TANEYTOWN.

Your troop will cover the KINGSDALE—HARNEY road from near KINGSDALE.

Medical and veterinarian attendance, rations, oats, and ammunition will be sent you, arriving about 7-30 P. M.

Connect with 3d Cavalry by patrols and reconnoiter between your troop and the area covered by that regiment. Our outpost will establish a relay post just west of GALT. Send important messages by that route as hostile patrols may have possession of some telephone stations. We have taken charge of the telephone station in TANEYTOWN and will have an operator constantly on duty.

6-30 P. M.

At 6-30 P. M., dusk, Colonel F, to regiment:

Column of fours, 2d Squadron in the lead. Follow me.

7-00 P. M.

Having led the regiment through Taneytown to the stream south of the town, and Major Q having joined Colonel F, when the regiment passed the bivouac, Colonel F, to commanding officer, 2d Squadron:

Water—2d Squadron to the right. Squadron and troop commanders to report to me.

7-04 P. M.

Colonel F, at 7-04 P. M., to commanding officer, 3d Squadron:

Water—3d Squadron to the left. Squadron and troop commanders to report to me.

Colonel F, at 7-15 P. M., to assembled troop and squadron commanders and staff:

7-15 P. M.

There is no change in the situation. The Regiment bivouacs around those woods. Major Q will direct organizations to their places.

Troops L and M furnish the outpost. It will guard all roads, by which the enemy might approach, at a distance of about one mile from the bivouac.

Straw will be provided for beds for the men.

Fires for warmth will be permitted, but should consist of many very small fires instead of a few large ones. They should be built in the woods so the glow will not be so noticeable. Numbers four will have charge of the horses and equipment for their whole four and will sleep at the picket lines. The remainder of each organization will sleep on their arms at the bivouac.

The field and combat trains are at the bivouacs. They will be available till midnight, at which time they will be ready to march, accompanied by the band. Extra ammunition will be issued before that time.

Troops will be ready to march at 5-15 A. M. Orders will be issued at 5-00 A. M.

I will be at the house located in the east edge of the woods.

Adjutant, at 7-32 P. M., to commanding officer, Troop M:

Your troop reports to commanding officer Troop L for duty as outpost. Send Troop D to its bivouac in the west edge of those woods. The outpost commander is at the crossroads in Taneytown. 7-32 P. M.

Colonel F, at 7-45 P. M., to division commander by telephone:

I desire to send my field and combat trains to join division trains, starting at midnight. 7-45 P. M.

Reply, 'Approved. Orders for tomorrow will be sent you by motor.'

Colonel F, at 7-55 P. M., to quartermaster:

Field and combat trains accompanied by the band will march at midnight by Bridgeport and Emmitsburg to join the division trains. 7-55 P. M.

Requirement (b):

Colonel F, at 9-45 P. M., to staff officer who brought division order:

9-45 P. M.

Report to the division commander that I contemplate marching at daylight in a generally northern direction east of the Monocacy. My radio set will be in operation hourly, on the hour.

Colonel F, at 10-00 P. M., to Lieutenant T (who had been summoned by the adjutant):

Our division marches tomorrow on Gettysburg. Our Regiment will march to Kingsdale and thence northward to cover the division. The 3d Cavalry is halted for the night east of Gettysburg on the Hanover road.

Get six selected men from your troop, and at 4-00 A. M. move by Longville and Harney to join the 3d Cavalry as information officer. Troop C is now west of Kingsdale on the Kingsdale—Harney road. Hostile patrols may be encountered anywhere on your route.

10-00 P. M.

Colonel F, at 11-00 P. M., to division headquarters by radio:

11-00 P. M. Hostile cavalry, about a division with artillery, halted for the night near UNION MILLS. Hostile contact squadron moved through LITTLESTOWN to the northwest at 5-30 P. M. today.

NOTE: Colonel F slept from 8-00 P. M., till roused by the division staff officer at 9-30 P. M., and now goes to sleep, leaving orders to be awakened at 4-30 A. M.

The adjutant, at 4-45 A. M., written message to commanding officer, Troop C, by double messenger—to be relayed:

4-45 A. M. The Regiment marches on KINGSDALE at daylight, by TANEYTOWN—KINGSDALE road. Your troop will be relieved and join the main body as soon as the advance guard passes KINGSDALE. Keep contact with the enemy in your front till Regiment arrives.

NOTE: It is assumed that the information of the hostile cavalry passing through Littlestown came from Troop C, so no message has been sent to the troop about that matter.

Adjutant, at 5-10 A. M., to assembled squadron and troop commanders and staff. (Dictated from copy by adjutant, Colonel F being present).

5-10 A. M.

Field Orders,

No. 7.

Geological Survey Map.

Troops

(a) Advance Guard:

Major S

2d Sq. (less 2 trs.)

(b) Main Body—in order of march:

3d Sq.

1st. Sq. (less 3 trs.)

M. G. Tr.

(c) Right Flank Guard:

Capt. K.

Trs. G and H.

(d) Special Detachment:

Capt. Y.

Tr. C.

(e) Signal Troops:

1st Cavalry,

TANEYTOWN,

17. March, 15, 5-10 A. M.

1. A hostile cavalry division, with artillery, halted last night near UNION MILLS.

About two hostile troops were northwest of LITTLESTOWN last evening and have not since been located.

Our division marches on GETTYSBURG today.

2. This Regiment marches north, keeping east of the MONOCACY, to cover the movements of the division.

3. (a) The Advance Guard will march at 5-15 A. M. by the TANEYTOWN—KINGS-DALE road, provisionally on KINGSDALE. Gait four miles per hour.

(b) The Main Body will follow the advance guard at 1,000 yards.

(c) The Flank Guard will move by roads one to two miles east of the route of the main body, and will reconnoiter towards the GETTYSBURG—BALTIMORE turnpike.

Lieut. Z. (d) Troop C will remain in the vicinity of KINGS DALE till relieved by the advance guard, when it will join its

squadron.

(e) The radio section will be at the head of the main body and will be in operation hourly, on the hour.

(x) The outpost will be relieved at once and will join the 3d Squadron.

4. Field and combat trains have already joined the division trains.

5. I will be at the head of the main body.

F,
Col.

Colonel F, at 5-15 A. M., to division commander, by radio:

1st Cavalry marches at 5-15 A. M. in accordance with previous arrangement. Nothing new learned of the enemy. This station will be in operation again at 6-00 A. M. 5-15 A. M.

Situation III

1st Cavalry, Continued—Morning of March 17th

(Use 3-inch map).

The Regiment halted about 2 miles north of Taneytown to water, and again at crossroads 538 (700 yards northwest of Galt) to wait for reports.

By 7-00 A. M., the following information has been received:

At daylight the 3d Cavalry attacked and utterly routed about 2 hostile troops, at a point about 3 miles northwest of Littlestown. The remnants of this hostile force retreated through Littlestown and were not pursued as the 3d Cavalry continued on toward Hanover.

The 2d Cavalry (cavalry of 2d Div.), less one squadron, has marched to join the cavalry division north of Gettysburg. 7-00 A. M.

The lieutenant, who went out last night by way of Marker's Mill (Big Pipe Creek Mill on some maps), reports that he believes the hostile cavalry and artillery at Union Mills started out in two columns this morning, one column going toward Hanover and the other toward Littlestown. He is not certain of this as his hiding place was discovered, and he had great difficulty in escaping, only succeeding in doing so by the assistance of Captain K's flank guard, which, at 6-45 A. M., was near 626 (1½ miles east of Galt).

At 7-10 A.M., the regiment is disposed as follows:

Troop C last reported at roadfork west of Kingsdale, in contact with hostile patrols.

7-10 A. M.

Colonel F has temporarily joined the support of the advance guard, which is at the small nose 400 yards south of the point where the Taneytown—Kingsdale road crosses Piney Creek.

Head of main body 1,200 yards in rear of support of advance guard.

One platoon from the advance guard, which has been on the road to the southeast of Galt, is now on the farm road that branches off between the support and the main body, hurrying to rejoin the advance guard.

At this time Sergeant U, Troop H, reaches Colonel F with the following verbal message:

Captain K's compliments. He is about $1\frac{1}{2}$ miles down that road (Piney Creek village—626 road). He is being attacked by about a squadron and will soon be forced back along that road (same road). He requests instructions.

Required:

Orders and messages issued by regimental headquarters to deal with this situation.

Solution

Colonel F issued the following orders:

Colonel F, at 7-11 A. M., to advance guard commander, who heard Sergeant U's report:

7-11 A. M.

Move your advance guard at a gallop and conceal it in those woods (about $\frac{1}{3}$ mile north of the point where they then were).

I will instruct Captain K to fall back past you and try to lead the enemy to follow. The Regiment will form up just west of this nose (where Colonel F then was) where I shall be. Reconnaissance to the north to prevent a surprise from that direction. Move out.

Colonel F, at 7-12 A. M., to adjutant:

7-12 A. M.

Take Sergeant U with you. Go to Captain K and instruct him to fall back hurriedly through Piney Creek past where the advance guard is ordered to conceal itself. You will stay with Captain K and serve as his guide.

While galloping back toward the head of the main body, Colonel F met the lieutenant with the platoon which

was trying to rejoin the advance guard.

Colonel F, at 7-15 A. M., to the platoon commander:

The Regiment is going to attempt an ambush of a hostile squadron from a position this side of that nose (pointing).

7-15 A. M.

Hurry back in the direction from which you just came, keep off hostile patrols and give me timely warning of any hostile advance in force from that direction.

Colonel F, at 7-22 A. M., to troop and squadron commanders of the main body, which is now on the road just behind the nose before mentioned:

Captain K's two troops have been ordered to retreat rapidly by a road that runs into the one we are on by way of the valley, just beyond that nose. I hope to induce a hostile squadron to pursue him impetuously.

The advance guard is concealed in the woods about $\frac{1}{4}$ mile north of here.

7-22 A. M.

Major A (1st Sq.) will take Troop D and the M. G. Troop and remain concealed dismounted about 200 yards south of this point, and just this side of the nose.

Major C (3d Sq.) will have the fences along this road and to the north cut in several places, and will hold his squadron here in readiness to act mounted.

No one of the command is to be allowed to go where he can be seen from the other side of the ridge, except a single observer from Major A's force.

I will be near this road. Move to your places.

Situation IV

Colonel F went to a place from which he could just see over the ridge and watched alone, with his staff and his horse behind the ridge.

At 7-30 A. M., after all parts of the regiment were in position, Captain K's troops retreated at a run as directed, followed by a hostile troop at about 200 yards. This hostile troop was followed about 800 yards further to the rear by other mounted troops, the number of which could not be told, as only part of the column was visible to Colonel F when the leading hostile troop reached the bridge $\frac{1}{4}$ mile north of him. It was stopped by fire from part of the advance guard, and charged by about $\frac{1}{2}$ Troop E in column of fours.

7-30 A. M.

Required:

(a) Orders of Colonel F to meet this situation.

(b) Assuming that the action of the regiment is successful, give Colonel F's outline of what he intends to do next, as he expresses it to his staff.

(c) Give the surgeon's recommendation for the sanitary arrangements to meet the situation as outlined under (b).

Solution

(a) Colonel F watched till he thought the larger pursuing force had advanced as far as it would come, then at 7-30 A. M., signalled to Major C,

7-30 A. M.

Forward, Gallop.

As major C, at the head of his squadron, approached, Colonel F, called:

Two troops to attack down the road, mounted. Do not pursue over a mile. Two troops to halt here in reserve. I will halt your two rear troops.

If Major A has not already opened fire, he is signalled to do so, or Colonel F calls an order to that effect.

As the 3d troop in column of Major C's squadron arrives, Colonel F signals halt to the two rear troops.

(b) Assuming that the leading hostile troop was entirely killed or captured; and that the fire from Major A's party caused considerable loss to the head of the larger hostile force, which retreated hastily, pursued by two troops under Major C, the following shows Colonel F's intentions:

Colonel F, at 7-40 A. M., to his staff:

7-30 A. M.

The Regiment will be assembled as soon as possible, and our march will be continued. Lieutenant X and $\frac{1}{2}$ Troop E will take charge of the prisoners and captured horses and march them, by way of Harney, to the rear of the division, and turn them over to the military police.

The surgeon will make the necessary sanitary arrangements, counting on about 30 minutes before we are again ready to move.

The veterinarian will make similar arrangements for the injured horses, replacing any of our injured horses with sound captured animals.

The regimental staff will arrange these details in my name, while I post covering detachments and reassemble the Regiment.

The surgeon, at 7-42 A. M., to Colonel F:

I recommend that a few troopers be sent at once to locate two or three vehicles in which some of the wounded can be sent back under charge of Lieutenant X, and that one troop be dismounted at once to serve temporarily as bearers. The medical personnel will be fully occupied in giving first aid and classifying the wounded.

I also recommend that a line officer be directed to summon a civilian physician from Taneytown, and to get together a few civilians to assist in the care of the wounded. Lieutenant T (Medical Corps) and three members of the Hospital Corps should be left behind in charge of the wounded, but ordered to rejoin as soon as they have done emergency work and turned the wounded over to these civilians.

7-42 A. M.

ADVANCE GUARD, 1ST DIVISION,

8-00 to 10-00 A. M.

Situation V

(CAPTAIN FISKE)

The 1st Division marches, March 17, by the Emmitsburg Road towards Gettysburg.

The 1st Cavalry (less 2 trs.) is reconnoitering via Taneytown and Westminster.

The advance guard of the division consists of the 1st Brigade, 1st Bn., 2d L. A., Tr. B, 1st Cav., 1 wire plat. Sig., and the 1st Amb. Co. The 1st Inf. is the support. At 8-00 A. M., the head of the reserve is crossing Marsh Creek, southwest of Greenmount. Tr. B, (less a platoon with the support and one at the head of the reserve) is presumed to be southeast of Round Top, reconnoitering to the east. The main body of the division follows the advance guard at one half mile.

General B, commanding the advance guard, who is riding at the head of the reserve, receives, at 8-00 A. M., the following message from the division commander:

8-00 A. M.

The enemy is believed to be advancing with 3 corps and 2 cavalry divisions. His leading troops were a short distance east of the line UNION MILLS—HANOVER last night. Our field army will defend the line of ROCK CREEK. The 1st and 2d Divisions occupy the position ROUND TOP—BARLOW KNOLL. The remainder of the army's infantry will be held in reserve.

The 1st Division will defend the general line of the TANEYTOWN ROAD from knoll 528 (3" map) to POWERS HILL, both inclusive, which will be intrenched by the 2d and 3d Brigades today.

The advance guard will turn east of ROCK CREEK and cover their work.

Required:

General B's orders.

(Time for solution, one and one half hours)

Solution

General B's orders:

Verbally, at 8-03, to the colonel, 2d Infantry:

8-03 A. M.

Turn the column east at road junction 507 and march on Barlow. Have your leading company gain a few hundred yards, by increasing the gait, to secure the march.

In the colonel's presence, to the lieutenant in charge of the platoon, Troop B:

The advance guard turns east. You will precede this column by one mile to Barlow, reconnoitering thoroughly three quarters of a mile to each flank. Except one company a few hundred yards ahead, the infantry will throw out no security detachments until it reaches the Ballinger farmhouse.

At 8-07, to an aid:

Direct Colonel K (comdg. 1st Inf.) to march east by the road half a mile south of Round Top. I will send him written orders in 8-07 A. M.
a few minutes.

Verbally, at 8-12 to the colonel, 2d Infantry:

The enemy's advance guards were last night a short distance east of the line Hanover—Union Mills. His strength is believed to be 3 corps and 2 cavalry divisions.

Our 1st and 2d Divisions will defend the line Round Top—Barlow Knoll.

This Advance Guard is ordered east of Rock Creek to cover the 2d and 3d Brigades, which intrench the line Round Top—Powers Hill.

The 1st Infantry will march east by the road one half mile south of Round Top. Troop A, now near Round Top, will trot ahead to hill 606, a couple of miles south of Two Taverns.

When the head of the artillery reaches the Ballinger farmhouse, I will halt this column. Your regiment (less its last battalion) and the platoon of Troop B, now ahead of us, will take over the duties of advance guard of the detachment. March via Barlow on the King crossroads. When you have completed your extension to the front, the main body will follow at 1,000 yards. Connect with the 1st Infantry. 8-12 A. M.

General A then dismounts and has his adjutant prepare messages as follows:

Advance Guard,
½ mile south GREENMOUNT,
17 March, 15, 8-20 A. M.

Capt. M (C. O., Tr. B.):

The enemy's advance guards were short distances east of the line UNION MILLS—HANOVER last night. His strength is believed to be 3 corps and 2 cavalry divisions.

Our army defends the line of ROCK CREEK.

This Advance Guard turns east, to cover the 2d and 3d Brigades, which intrench the line ROUND TOP—POWERS HILL. 8-20 A. M.

You will trot ahead at once to hill 606, 2 miles south of TWO TAVERNS, where you will remain in observation, reconnoitering to the east.

Messages to KING—BARLOW—BALLINGER road.

By command, Brig. Gen. B:

X.

Adj.

By aid with 2 orderlies.

Advance Guard,
 $\frac{1}{2}$ mile s. GREENMOUNT,
 17 March, 15, 8-30 A. M.

Col. K (1st Inf.):

The enemy's advance guards were last night a short distance east of the line UNION MILLS—HANOVER. His strength is believed to be 3 corps and 2 cavalry divisions.

8-30 A. M.

Our army defends the line of ROCK CREEK.

This Advance Guard is ordered to cover the 2d and 3d Brigades, which intrench this afternoon on the line ROUND TOP—POWERS HILL.

You will march provisionally on crossroads 491, $\frac{1}{2}$ mile east of ROCK CREEK.

Connect with the remainder of the Advance Guard, which is marching via BARLOW towards the KING crossroads.

By command, Brig. Gen. B:

X.
 Adj.

By 2d aid.

General B then directs the brigade adjutant:

Stay at roadfork 507 until the column halts. See that all of its troops clear the Emmitsburg Road, to prevent interference with the main body of the division. As you come forward, inform commanding officers of the present situation. I am going to the Ballinger farmhouse.

Situation VI

9-30 A. M.

At 9-30 A. M., the infantry point of the right column is south of the Coshun farmhouse on the Barlow—J. Smith road. The leading troops of the 1st Infantry were seen 10 minutes ago passing the Lott farmhouse, about a mile north of Coshun's. Troop B was then just ahead of the 1st Infantry. The platoon attached to the 2d Infantry was sent ahead from Barlow towards hill 606. No contact with the enemy has been reported by any part of General A's command.

Required:

Any orders General B issues in the next half hour, assuming that no further information of the enemy is received.

(Time for solution, one and one half hours)

Solution

General B's orders:

Det., 1st Div.,
Near COSHUN farmhouse,
17 March, 15, 9-30 A. M.

Colonel K (1st Inf.):

No reports of hostile contact have yet been received from our patrols.

This Detachment will take stations to screen the work of the division.

The 2d Inf., from the vicinity of the King crossroads, will provide cover south of LITTLES RUN.

9-30 A. M.

The 3d Inf. and artillery halt near COSHUN'S.

You will proceed to the ridge east of ST. MARY'S RE. CHURCH, and thence will cover from LITTLES RUN to crossroads 516, on the LOW DUTCH ROAD. Connect with the 2d Div. to your left, and 2d Inf. to your right. Hostile patrols and detachments will be prevented from penetrating our screen. If the enemy advances in strength, this Detachment, at my order, will retire; the 1st Inf. by POWERS HILL, the remainder south of ROUND TOP.

Messages to D. F. PLANK farmhouse, with which Sig. Troops will connect you by wire.

By command, Brig. Gen. B:

X,
Adj.

By aid with 2 orderlies.

Verbally, at 9-40 A. M., at roadfork southwest of Coshun's, to the colonels, 2d Infantry and 3d Infantry, Major, 1st Bn. 2d L. A., commanding officer, signal platoon, and commanding officer, ambulance company.

No reports of hostile contact have yet been received.

This Detachment will take positions to secure the intrenching of the division.

The 2d Infantry will proceed to the vicinity of the Kings crossroads, whence it will provide cover from Littles Run to one half mile south of the Miller—Trustle road. Troop B, with 2 platoons now moving on hill 606, two miles south of Two Taverns, is at the disposal of Colonel L (2d Inf.). Reconnaissance towards Whitehall—Littlestown—Union Mills. Send Lieutenant N's platoon to the 3d Infantry (the platoon originally at the head of reserve).

9-40 A. M.

The 1st Infantry is marching to the ridge east of St. Mary's Church, whence it will provide cover north of Littles Run.

The 3d Infantry will send one battalion and the platoon of cavalry to knoll 492, a mile and a half southeast of Barlow, to connect on its left with the 2d Infantry and cover to the Monocacy.

Careful connection between all parts of the screen will be maintained. Hostile patrols and detachments will be prevented from penetrating. Upon a hostile advance in force, this Detachment, at my orders, will withdraw; the 1st Infantry by Powers Hill.

The 3d Infantry (less 1 battalion), the artillery, and the ambulance company, Colonel M, commanding, will halt under cover west of T. F. Kuns—Coshun. The artillery commander will select positions for aiding the withdrawal, in case of need, of the 1st and 2d Regiments.

The signal troops will connect brigade headquarters with the infantry regiments.

Brigade headquarters near the D. F. Plank farmhouse.

Situation VII—2d Infantry

Required:

Orders, colonel, 2d Infantry, to comply with the above, upon the assumption that no hostile interference develops.

(Time for solution, one hour)

Solution

Colonel L's (2d Inf.) orders:

Verbally, at 9-50 A. M., near J. Smith roadfork, to major, 1st Battalion, and captain, Company D, which company, at tail of the support, has been halted:

No reports of hostile contact have yet been received from our patrols.

General B's detachment takes stations to screen the intrenching of the division; the 1st Infantry, from the vicinity of St. Mary's Church, provides cover north of Littles Run; the 3d Infantry sends a battalion to knoll 492; Troop B is stationed on hill 606; the 3d Infantry (less 1 battalion) and the artillery are in reserve near Co-shun's.

9-50 A. M.

The 2d Infantry, with its reserve near the King crossroads, will cover from Littles Run to half a mile south of the Miller—Trustle road.

The 1st Battalion (less Company D) will secure the line G. Hoffman—Collins farmhouse, northwest of 563, all inclusive. Leave your ammunition wagons with the 3d Battalion.

Company D, from southeast of crossroads 543, will cover from G. Hoffman, exclusive, to connect with the battalion of the 3d Infantry.

I will send a company of the 2d Battalion to the nose a half mile north of 563, to continue the screen to Littles Run.

The entire screen must be closely connected up. Hostile patrols and detachments will be prevented from penetrating. But if the enemy advances in strength, General B intends to withdraw.

The remainder of the Regiment takes station near the King crossroads.

Regimental headquarters at C. H. King, with which farmhouse you will establish flag communication.

2d Inf.,

Near J. SMITH,

17 March, 15, 9-50 A. M.

C. O., Tr. B:

Brigade orders attach your troop to 2d Inf.

This Regiment takes station near KING—D. F. PLANK crossroads, 1st Bn. on line G. HOFFMAN—COLLINS—563.

9-50 A. M.

You will remain at knoll 606, patrolling towards WHITEHALL, LITTLESTOWN, UNION MILLS. Prevent hostile patrols observing from 606.

Messages to C. H. KING farmhouse.

L,
Col.

By patrol, commanded by adjutant, 2d Battalion, who is directed:

Find Lieutenant N, commanding the cavalry platoon originally at head of the reserve. He is probably on hill 606. Direct him to report with his platoon to a battalion of the 3d Infantry which General B has ordered to knoll 492, a mile and a half southeast of Barlow.

Verbally, at 10-05 A. M., near crossroads 522, to assembled field officers (except major, 1st Bn.), commanding officer, Company E, and commanding officer, Machine Gun Company.

No reports of hostile contact have yet been received from our patrols.

General B's detachment is taking stations to screen the intrenching of the division; the 1st Infantry, from the vicinity of St. Mary's Church, provides cover north of Littles Run.

The 3d Infantry is sending a battalion to knoll 492; Troop B is on hill 606; the 3d Infantry and artillery are west of Coshun—T. F. Kuns. Brigade headquarters is at D. F. Plank.

This Regiment provides cover from Littles Run to one half mile south of the Miller—Trustle road.

The 1st Battalion (less Company D) is assigned the section G. 10-05 A. M.
Hoffman—Collins—farmhouse northwest of 563, all inclusive.

Company D, from the vicinity of crossroads 543, covers from G. Hoffman, exclusive, to connect with the battalion of the 3d Infantry at knoll 492.

Company E will proceed to the nose a half mile north of 563, and cover from the farmhouse northwest of 563, exclusive, to Littles Run. Connect with the 1st Infantry.

Hostile patrols and detachments must be prevented from penetrating the screen.

In case of attack, General B intends to withdraw.

Establish flag communication with the C. H. King farmhouse.

The remainder of the Regiment, under Lieutenant Colonel O, will take station under cover west of this timber (in the ravine west of King farmhouse). Send a platoon to regimental headquarters at C. H. King farmhouse.

Then Colonel L directs the regimental adjutant:

Establish headquarters at the C. H. King farmhouse. Get signal connection with all parts of the Regiment. I am going to inspect the security arrangements, beginning with Company D.

THE DIVISION—PREPARATION OF A POSITION

Situation VIII

Division Headquarters, 7-45 A. M. to 1-00 P. M.

At 7-45 A. M., March 17, the commander of the 1st Division receives the following message from the army commander, dated Chambersburg, 17 March, 1-00 A. M.:

Reports indicate enemy moving northwest with 3 corps and 2 cavalry divisions. His leading troops are short distances east of line UNION MILLS—HANOVER tonight. Army will defend line of ROCK CREEK. 2d Div. marches today from FAIRFIELD to intrench BARLOW KNOLL—POWERS HILL, exclusive. 1st Div. will defend ROUND TOP—POWERS HILL. Remaining divisions in reserve for offensive action later.

Army headquarters CASHTOWN after 10-00 A. M.

The division commander immediately orders the advance guard (Situation V) to turn east across Rock Creek to cover the 2d and 3d Brigades while intrenching. The 1st Cavalry (less 2 trs.) spent the night near Taneytown in contact with hostile cavalry. (Situations 1 to 4, inclusive.)

At 8-00 o'clock, the head of the main body is starting across Middle Creek on the Emmitsburg Road. The trains are to follow the main body at one mile.

Required:

Orders and actions General A (commanding the 1st Division) to include orders for the preparation of the position.

(Time for solution, two and one quarter hours)

Solution

The message from army headquarters was read to the staff shortly after its receipt, and an aid sent with the order for the advance guard to turn east.

To a second aid:

Inform brigade and auxiliary commanders of the situation and our orders to defend Rock Creek, and that the advance guard has been sent across that stream to cover our intrenching. Direct General C (2d Brigade) to take command of the main body and continue the march on Gettysburg. I am going to ride ahead to the vicinity of Round Top.

1st Div.,
2 miles N. E. EMMITSBURG,
17 March, 15, 8-15 A. M.

Lt. Col. K:

Enemy's leading troops were yesterday east of HANOVER—UNION MILLS. Army defends ROCK CREEK. Our advance guard has been sent east of that stream to cover 2d and 3d Brigades, which intrench POWERS HILL—ROUND TOP—KNOLL 528.

8-15 A. M.

Have engineer train and 1st Am. Co. follow troops without distance.

Turn remainder trains northwest at FAIRPLAY and proceed by MT. GREARY S. H. to roadfork 470 on MARSH CREEK.

Orders will be issued east of ROUND TOP on TANEYTOWN ROAD at 11-00 A. M.

By command, Major Gen A:

X,
C. of S.

By messenger.

General A, accompanied by his staff, General E (Art.), Major G (Engrs.), and escorted by a platoon of cavalry, then rides via Greenmount and Keckler farm to the Taneytown road, reconnoiters the front assigned his division, and listens to the recommendations of the officers with him.

At 9-30 A. M., he sends an aid to meet the column and to direct:

The 2d Brigade (leading) will assemble in the vicinity of cross-roads 580; the artillery at the J. Biesecker farm; the 3d Brigade near J. A. Wolfe.

9-30 A. M.

Engineers and engineer train will join the 3d Brigade; signal battalion, ambulance companies, and 1st Am. Co. will join the artillery.

The Division will rest till 1-30 P. M.

Orders will be issued east of Round Top at 11-00 A. M.

1st Div.,
ROUND TOP,
17 March, 15, 11-00 A. M.

Field Orders,

No. 5.

Gettysburg 3" Map.

1. The 2d Division is assembling about GETTYSBURG. Our reinforced 1st Brigade has taken stations on the line ST. MARY'S RF. CHURCH—KING crossroads.

2. This Division will defend the general line of the TANEYTOWN road.

3. Sections are assigned as follows:

(a) 2d Brig., from MRS. BUCK farmhouse to the house 450 yards north of E. WEIKART.

11-00 A. M.

(b) 3d Brig., from the house 450 yards north of E. WEIKART to include knoll 528.

(c) The Art. Brig. will prepare positions as follows:

For guns: one bn. near A. TROSTLE, one battery west of knoll 544, 2 btries. near knoll 517, 2 btries. south of knoll 547 and west of PLUM RUN, one btry. in timber

just west of PLUM RUN, north of the 540—469 road.

For howitzers: 2 btries. south of 489 and west of PLUM RUN, 1 btry. southwest of ROUND TOP and east of PLUM RUN.

- (d) The entire position of the Division will be strongly entrenched.
- (e) Engr. Bn. will send one company to each of the 2d and 3d Brigs., four wagons of the engineer train to the 2d Brig. and five to the 3d. The remaining company will establish not less than four complete crossings of MARSH CREEK and WILLOUGHBY RUN, between the RILEY farmhouse and PITZER S. H.
- (f) Sig. Bn. will connect the brigades, including the 1st, by wire with Div. Hq.

4. Dressing stations on PLUM RUN, northwest of LITTLE ROUND TOP, and west of knoll 528.

Station for slightly wounded: EMMITSBURG ROAD west of M. BUSHMAN.

Ammunition distributing stations: Crossroads 580 and J. A. WOLFE.

Trains will park near roadfork 470. Reconnoiter routes west to HAGERSTOWN TURNPIKE, and east to the Division. Establish signal communication with ROUND TOP.

5. Div. Hq. on ROUND TOP.

A.
Maj. Gen.

Read on eastern slopes of Round Top to assembled brigadiers (of 2d, 3d, and Art.), to commanders of engineer and signal troops, to representative of trains, and copies furnished each.

The following comment upon a student's solution of the preceding situation may be of interest. In that solution, the line selected for the division was that of Powers Hill—Geo. Spangler—J. Eckenrodes—L. Plank.

An important part of the solution of most troop leading problems is the correct interpretation of orders received. In the problem in question, the army commander, as will frequently be the case, conveys his orders in a condensed message. References therein are to the strategical (1") map. His general intention as stated is to defend the line of Rock Creek. The north and south limits of the territory assigned each division can be expressed only in most general terms and by reference to the localities of the great landmarks; which, as they appear somewhat at the desired intervals on the one inch map, are Barlow Knoll, Powers Hill, and Round Top. Having indicated his intention to defend the Rock Creek line, and having roughly given the north and south divisions of responsibility, the distant army commander must depend upon the division commanders, who will have opportunity for personal reconnaissance of the ground, to select the best general positions for their firing lines. In doing this, the two division commanders must consider the probable deployment of the enemy for attacking, particularly the deployment of the hostile artillery; and must take care that the line occupied by each division well connects up with, and supports, the line occupied by the other division. Hostile artillery in the direction of Wolf Hill would

squarely enfilade the line selected in this paper, and perhaps alone would make that line untenable. The 2d Division, because obviously it cannot go east of Culp's Hill, must put the firing lines on the eastern slopes of Cemetery Hill, and its right near that hill will rest at some convenient point near the Mrs. Brock farmhouse. For the 2d Division to rest its right at Mrs. Brock and the 1st Division its left on Powers Hill would be to invite disaster. By concerted action, and by the exercise of the rather wide discretion properly theirs, the two division commanders on the ground must complete the general instructions of the army commander and harmonize his expressed plan with the incidents of terrain as actually found.

To occupy Powers Hill, in literal obedience of this order, would hardly be more excusable than to place the firing lines of the division on the bank of Rock Creek because the army commander expressed his intention of defending the line of that stream; or to place the firing line of the division in Gettysburg, if ordered to defend that town.

Situation IX—3d Brigade

Required:

1. Orders, General D (commanding 3d Brigade), for assembling at J. A. Wolfe.

2. Actions and orders, General D, in compliance with the division order for preparation of the position.

(Time for solution, one and three-quarter hours.)

Solution

1. Orders, General D, for assembling at J. A. Wolfe: At Greenmount, verbally, at 10-20 A. M., to colonels:

The division rests till 1-30 P. M.

The 2d Brigade at crossroads 580.

The artillery at J. Biesecker farm.

This Brigade, with the engineers attached, near the J. A. Wolfe farm.

The 7th Infantry will assemble in the vicinity of crossroads 562, east of the Emmitsburg road.

The 9th Infantry, near crossroads 562, west of the Emmitsburg road.

The Engineers, near knoll 586.

The 8th Infantry, at crossroads 525.

Water for the men will, as far as practicable, be obtained from the wells near the respective regiments. The surgeon, 7th Infantry, will be sent ahead to examine and allot wells to regimental representatives.

All animals will be watered from Marsh Creek.

The 7th Infantry will send a security detachment to crossroads 540; and the 8th Infantry will station one towards Greenmount.

The 9th Infantry will send a detachment under an officer to

10-20 A. M.

purchase all tools suitable for intrenching and water containers for the Brigade while at work, from Fairplay, inclusive, to J. A. Wolfe.

Colonel Q will take command. I am going east of Round Top for orders. Brigade headquarters will accompany me.

2. Actions and orders, General D, in compliance with division orders for preparation of the position.

His colonels were told, shortly after 8-00 o'clock, of the intention to defend Rock Creek, and of the movement of the advance guard to the east.

General D asks Major G (Engrs.) to direct the captain of the engineer company to report to him on the road south of knoll 527 at noon. He then reconnoiters the ground assigned to his brigade, and confers with General C, whose brigade has the northern section, to arrange for connection and mutual support. Meanwhile the adjutant has sent orders for the colonels to assemble on the road between knolls 528 and 527 at noon.

Verbally, at 12-00 noon, at the designated point, to assembled colonels and engineer captain:

The reinforced 1st Brigade is posted on the line St. Mary's Reformed Church—King crossroads.

The division intrenches this afternoon.

The 2d Brigade north of us. A howitzer battery will be southwest of Round Top and east of Plum Run. Two gun batteries will be south of knoll 547, and one battery west of Plum Run and north of the 540—469 road.

We will intrench approximately along the line of the Taneytown road.

Sections are assigned as follows:

12-00 M.

The 7th Infantry from the house 450 yards north of E. Weikart farmhouse to roadfork 469. Arrange for mutual support with the regiment of the 2d Brigade to your left.

The 8th Infantry from roadfork 469 to include knoll 528.

Standing trench with overhead cover will be constructed. Knoll 528 will be converted into a strong supporting point.

The 7th and 8th Regiments will empty their combat wagons and send them to J. A. Wolfe to refill. They will then be assembled, under an officer of the 9th Infantry, at crossroads 540, at my disposal.

The 9th Infantry will take station in reserve north of Hoffman crossroads. This regiment will send security detachments to Willow Grove S. H. and Lott and Diener farmhouses, and will patrol the entire front of the brigade. It will also send two companies to assist the engineers in constructing crossings over Plum Run. The purchased tools and water containers will be divided equally between the 7th and 8th regiments. It will, in addition, construct fire trenches for two battalions between Hoffman and crossroads 540.

The engineer company will construct two additional complete routes from the Taneytown to the Emmitsburg road, practicable for all arms; one immediately south of Round Top and one between Round Top and Little Round Top. The engineers will also assist the

8th Infantry in strengthening knoll 528. Three wagons of the engineer train will be sent to the 8th Infantry and two to the 7th.

Dressing station at Plum Run west of knoll 528.

Station for slightly wounded: Emmitsburg road west of M. Bushman farm.

Brigade headquarters at this point (on road between 527 and 528), with which regiments will establish flag communication.

Situation X

(CAPTAIN DRUM)

Required:

1. The actions, orders, etc., of the commanders, 7th and 8th Infantry regiments for the organization and preparation of their sections of the defensive line.

2. The actions, orders, etc.; of the commander, 9th Infantry, in complying with the brigade order.

NOTE:—The situation begins upon the completion of the brigade commander's order at 12-15 P. M. The regiments are resting at the points indicated in Situation 9. The regimental commanders are on the road between hills 527—528 and have with them their staffs. The troops are familiar with the situation except as covered by the brigade commander's orders, Situation 9. One platoon of the engineer company has been placed at the disposal of the commander, 8th Infantry.

(Time for solution, four hours)

Solution

The Commanding Officer, 7th Infantry

By mutual agreement, the colonels of the 7th and 8th regiments decided to meet, after reconnoitering their respective sections, to arrange for cooperation, etc. The colonel, 7th Inf., then directs his adjutant:

Have the mounted officers with the Regiment join me at this point at once. Have the senior captain march the Regiment at 1-30 P. M. via this road (469—540—562) to a covered position west of this hill (527). Secure the two engineer wagons and the purchased tools and the water containers. Empty the combat wagons and send them to J. A. Wolfe crossroads to refill and await orders. I will reconnoiter our section and then return here.

12-15 P. M.

The colonel, accompanied by the rest of his staff, rides

along the Taneytown road, visiting and inspecting prominent points enroute, until he meets the commander of the right regiment of the 2d Brigade. After arranging for mutual support, the colonel returns to hill 527 via the L. Plank house.

After arranging for mutual support with the commander of the 8th Regiment, the colonel leads the mounted officers to the orchard west of E. Weikart, and issues the following verbal orders at 12-50 P. M.

No new information of the enemy.

The division intrenches this afternoon.

The reinforced 1st Brigade is covering the front. The 2d Brigade defends to the north including that spur (points to farm road running east from Vincent Spur). Our brigade defends the south section.

Batteries will support us from the line of Plum Run.

The 8th Infantry holds from that road (469—540) to include that hill (528). The 9th Infantry, as reserve, will be southwest of that hill (528) and will send security detachments to our immediate front. Dressing station west of that hill (528) on Plum Run. Engineers will open routes to the west, south of Round Top, and south of Little Round Top. Brigade headquarters on road between hills 527—528.

12-50 P. M.

Our Regiment defends from that spur (Vincent), exclusive, to that road (469—540), inclusive. The line will run approximately from that orchard (north of E. Weikart) through this point and east of those woods (south of 527). Standing trenches with overhead cover and obstacles will be constructed.

1st Battalion will hold from that orchard (north of E. Weikart), inclusive, to this point, inclusive, covering the front north of that orchard (900 yards east of the left of the line) to include that hill (466).

2d Battalion will hold from this point, exclusive, to that road, inclusive (469—540), covering the front that hill (466), inclusive, to that road, exclusive (450—418).

The Machine Gun Company (less 1st Platoon) will be near that house (L. Plank). The 1st Platoon near that orchard (north of E. Weikart). Positions will be prepared from which to cover the front of our section and that creek (running south from 450).

Battalions will arrange for mutual support between themselves and the organizations on their flanks. Hill 466 will be covered by cross fire.

3d Battalion, as reserve, will take station just west of that hill (527), constructing necessary cover. Covered approaches will be prepared to both sections of the line. Communication will be established between my position and the 1st and 2d Battalions and with brigade headquarters.

One engineer wagon and one half of the purchased tools and water containers will be distributed by the adjutant to each battalion on the line. The tools of the combat wagons will be used by the reserve and the Machine Gun Company.

Regimental aid station in creek west of that hill (527). Band report to the surgeon. Slightly wounded station: Emmitsburg road about one mile north of where we rested.

3d Battalion will provide cover for regimental headquarters in the orchard at this point.

I will visit the brigade commander, the artillery in this vicinity; later I will inspect the work, and then return here.

The Commanding Officer, 8th Infantry

The colonels of the 7th and 8th Regiments mutually arrange for the marching of their regiments via the 540—469 road and to meet at this point after reconnoitering their sections.

The colonel, 8th Infantry, directs his adjutant:

Have all mounted officers with the Regiment report to me at this point at once.

Have the senior captain march the Regiment at 1-45 P. M. via the Keckler—540—469 road to a covered position near that barn (just east of Plum Run on 540—469 road). Secure the engineer wagons and the purchased tools and water containers. Empty the combat wagons and send them to J. A. Wolfe to refill and await orders. I will reconnoiter our section and return here. 12-16 P. M.

The colonel arranges with the commander engineer company to have the platoon report at the same place and its commander to join him.

The colonel, with the rest of his staff, rides to 469, down the Taneytown road to Willow Grove S. H.; thence along the unimproved road up Plum Run to the top of hill 528, visiting and inspecting points of interest.

The colonel joins the commander of the 7th Infantry, and arranges for their mutual support, requesting especially that the creek running south from 450 be covered by the 7th Infantry. The mounted officers of the regiment having joined him, he issues the following verbal orders at the top of hill 528:

No new information of the enemy.

The division intrenches this afternoon.

The reinforced 1st Brigade covers our front. The 2d Brigade defends to the north. Our brigade defends the south section. Batteries will support from the line of Plum Run. The right battery will be just west of Plum Run and north of the 540—469 road. 12-55 P. M.

The 7th Infantry holds from that road, inclusive (469—540), to the north. 9th Infantry as reserve, will be on that hill (Hoffman) and will send security detachments to our immediate front. Dressing station on the creek west of this hill. Brigade headquarters on road between hills 527—528.

Our Regiment defends from that road (469—540) to this creek (Plum Run). Standing trenches with overhead cover will be constructed and obstacles prepared along the front.

1st Battalion (less Companies A and B) will hold a line along the eastern edge of the woods from that road, exclusive (469—540), to that wire fence, inclusive (east and west fence in swale west of 450), covering the front that clump of trees, inclusive (300 yards east 469), to those woods, inclusive (southeast of 450).

2d Battalion, Companies A and B, Machine Gun Company (less 1st Platoon) and Engineer Platoon, Lieutenant Colonel K, commanding, will hold this hill (528), covering the front of that road, inclusive (450—418), to that farmhouse (800 yards N. E. of Hoffman). A double tier of fire will be provided for, one line placed along here (500 contour) and the second around here (520 contour).

Mutual support will be arranged with adjacent units.

The 1st Platoon, Machine Gun Company, from position on the north side this hill, will cover the front of the right of the 7th Infantry.

3d Battalion, reserve, will take station, constructing necessary cover, just west of Plum Run and south of this road (469—540). Prepare covered approaches to both sections of the line and open routes through the woods south and east. Get in touch with the 9th Infantry. Provide communication from my position to brigade headquarters, to each section of the line, and to the reserves.

The Band will report to the surgeon. Aid station in those two houses northwest of here (540—469 road). Dressing station west of knoll 528. Station for slightly wounded on the Emmitsburg road about two miles north of our resting place.

Two engineer wagons and three quarters of the purchased tools and water containers will be issued to Lieutenant Colonel K's command and the rest to the 1st Battalion. Tools of the combat wagons will be used by the reserve and the Machine Gun Company.

3d Battalion will have cover prepared for my headquarters on the north slope of this hill (528).

I will visit the brigade commander, artillery in this vicinity, 9th Infantry; later I will inspect the work, and then return to this point.

The Commanding Officer, 9th Infantry

The colonel, at 12-15 P. M., informs the commander, engineer company, that Companies A and B will await his orders at their present station. He directs the adjutant:

12-15 P. M.

Have all the mounted officers and the 1st Battalion (less Companies A and B) report to me at Hoffman at once. Direct Companies A and B to await orders from Captain K at their present position. The rest of the Regiment will receive orders later. Direct Captain M to turn over all the purchased articles to the 7th and 8th regiments, divided equally. Have Lieutenant N take charge of brigade combat wagons.

I will ride down the Taneytown road to Willow Grove S. H., then to Hoffman.

After covering the ground as stated above and inspecting the ridge at Hoffman, the colonel joins the mounted officers and gives them the following verbal orders:

No new information of the enemy.

The division intrenches this afternoon.

The 1st reinforced Brigade is covering the front along the line St. Mary's Reformed Church—King. 2d Brigade is to the north. Our brigade defends the south section. The 7th Infantry holds the left and the 8th the right of the line, which ends on that hill (528). Some of our artillery is located to the west of that hill (528). Dressing station on the creek west of that hill (528). Station for slightly wounded, Emmitsburg road about one mile north of our resting place. Brigade headquarters on road between hills 528—527.

Our Regiment is in brigade reserve and will march to this point at 1-40 P. M. Companies A and B are assisting the engineers and will join us later.

Major C, 1st Battalion (less Companies A and B) will move out at once and furnish security along the immediate front of the brigade. Place detachments at Willow Grove S. H., Lott, and Diener; and patrol between them. Gain contact with the 1st Brigade. I will send a patrol to the south. 12-50 P. M.

Major D, the 2d Battalion will mass under cover west of those two houses (north of Hoffman). Construct trenches along the east edge of woods for two companies, covering in the direction of Willow Grove S. H. Gain contact with the 8th Infantry and open routes to their reserve. Open flag communication with the brigade commander and 8th Infantry. Maintain observation towards Willow Grove S. H.

Major E, the 3d Battalion will mass under cover at this point (north of 546). Construct trenches on the east edge of the woods for two companies to cover this road (546—432) and towards Barlow. Observation east and south. Send a patrol about two miles south on this road (546—496—472) to remain in observation.

Extra ammunition will not be issued.

The Machine Gun Company and sanitary units will assemble with the 3d Battalion. The surgeon will examine the wells in this vicinity and designate organizations to use them.

I am going to brigade headquarters, then to get in touch with the artillery and 8th Infantry, and will return here in one half hour. Lieutenant Colonel Q, take command. Adjutant, accompany me.

NOTE:—In issuing orders all orientation features are pointed out.

Situation XI

2d Brigade

(CAPTAIN HASKELL)

Required:

Actions and orders of General C, commanding the 2d Infantry Brigade, after receipt of the division orders on Round Top at 11-00 A. M., including the orders for the occupation of the defensive position.

(Time for solution, two hours)

Solution

On receipt of orders from the division commander, on

the east slope of Round Top, at 11-00 A. M., General C, commanding the 2d Infantry Brigade, reviewed the details of the order with his staff. He then requested the engineer commander to direct the commander of the engineer company assigned to the 2d Brigade, to report for orders, at noon, on the Taneytown road, east of hill 592.

To Lieutenant R, aid, at 11-00 A. M., General C ordered:

Ride to the brigade at crossroads 580 and direct regimental commanders to report to me for orders, at noon, on the Taneytown road, east of hill 592. Rejoin me at that point.

11-10 A. M.

General C then conferred with General D, commanding the 3d Infantry Brigade, and learned that the defensive line of that brigade would include the northeast corner of the orchard 450 yards north of E. Weikart; also that a security detachment with patrols to the front would be posted at the Diener farmhouse. He informed General D that the right of the 2d Brigade would include the small spur 400 yards south of J. Musser farmhouse, and that hill 532 would be so fortified as to sweep the left front of the 3d Brigade. On suggestion from General C, General D agreed to post machine guns in position to cover the east slope of hill 532, northeast of J. Ekenrodes, if necessary. Having arranged these details for connection and mutual support on his right, General C, with his staff and orderlies, rode to the north along the Taneytown road. At Cemetery Hill he found the commanding general of the 4th Infantry Brigade, 2d Division, and learned that this brigade would occupy a defensive line including Mrs. Buck's farmhouse, with the brigade reserve west of the large orchard north of N. Codori farmhouse, and artillery posted on the west slope of hill 606. General C also learned that the 4th Brigade had posted security detachments near Rock Creek with patrols to the front as far south as hill 592, near J. Taney. General C informed the commander of the 4th Brigade that the left of the 2d Brigade would extend to the small stream just south of Mrs. Buck's farmhouse; that the brigade reserve would be posted midway between A. Trostle and knoll 541; that artillery would be posted near

A. Trostle and at knoll 544, southeast of Wheatfield; that a detachment would be posted on Powers Hill to provide security for the troops intrenching on the left of the 2d Brigade and to support patrols to the front and along Rock Creek. The two brigade commanders agreed to make dispositions near Mrs. Buck's farmhouse to allow for mutual support.

General C then returned to the vicinity of hill 592. On his way to Cemetery Hill and while returning, he noted carefully the details of the terrain in his section. At hill 592 he was joined by his regimental commanders, Lieutenant R, and Captain B, commanding Company B, Engineers. After cautioning officers to take out their maps and to make notes of his orders, General C, at 12-05 P. M., began the following verbal order:

The division intrenches this afternoon.

The 1st Brigade, reinforced, is posted on the line St. Mary's Reformed Church—King crossroads and covers the occupation of the position.

The 3d Brigade is south of us. The 2d Division from Mrs. Buck's farmhouse, inclusive, to the north.

The artillery will support from the line of Plum Run. Behind this Brigade, there will be a battalion of artillery near A. Trostle, and a battery near knoll 544, southeast of Wheatfield.

12-05 P. M.

We will intrench approximately on the line of the Taneytown road. Standing trenches; overhead cover.

Sections are assigned as follows:

The 4th Infantry, from the house 450 yards north of E. Weikart, exclusive, to a point 200 yards south of the barn east of hill 592. A strong supporting point will be organized on knoll 532, near J. Musser.

The 5th Infantry will extend the left of the 4th Infantry to the first stream south of Mrs. Buck's farmhouse.

Combat wagons of the 4th and 5th Infantry will be emptied and sent to the 580 crossroads to refill and to park at my disposal.

The 6th Infantry, as reserve, will be posted in Wheatfield, midway between A. Trostle and knoll 541. Routes to the firing line will be opened up. One battalion will be sent to the 5th Infantry to assist in the clearing of the foreground. Security detachments will be sent to Powers Hill and to hill 476, east of George Spangler, to patrol our front and to connect with the 1st Brigade.

Tools and water containers collected from neighboring farms will be divided equally between the 4th and 5th Infantry.

The engineer company is assigned to the 4th Infantry to assist in preparation for defense. Two tool wagons from the engineer train are assigned to each regiment of the firing line.

Water for the troops will be taken from wells and springs approved and placarded by sanitary inspectors and from Plum Run. Dressing station northwest of Little Round Top, on Plum Run.

Station for the slightly wounded on Emmitsburg road west of M. Bushman.

Messages to the north spur of Little Round Top.

General C then directed an officer of his staff to repeat from notes the order just given. Corrections necessary were then made, and commanders directed to rejoin their commands. General C with his staff then rode out to, and along Rock Creek, all carefully reconnoitering the terrain in his section.

Situation XII

4th Infantry

Required:

Actions and orders of Colonel D, commanding the 4th Infantry, based on the orders received from General C at about 12-05 P. M., to include the orders for the occupation of the defensive position.

(Time for solution, two hours)

Solution

Colonel D, after receiving the orders from General C, near hill 592, carefully reviewed them with his staff officers, orienting himself partly from the map and partly from the terrain. At 12-20 P. M. he turned to his adjutant and ordered:

12-20 P. M. Ride to the Regiment. Direct Lieutenant Colonel M to march the Regiment at 1-30 P. M. to the northeast spur of Little Round Top. Also direct battalion commanders and the commander of the Machine Gun Company to report to me for orders at the crossroads near J. Musser at 1-00 P. M. Rejoin me at that same point.

The adjutant, with one orderly, then rode to execute the above order. Colonel D, with the remainder of his staff and the engineer captain, rode to the south along the Taneytown road, turned to the east on the lane to George Spangler's farmhouse and proceeded as far as hill 476. From this point he returned to the Taneytown road at J. Musser via F. (H) Swisher and the Diener—515 road; then rode south to E. Weikart where he met the colonel, 2d

Infantry, and conferred with him regarding connection and mutual support between the two regiments. Returning to J. Musser, he was joined by his adjutant and the officers he had summoned. During his reconnaissance, he had frequently conferred with the engineer officer and had obtained recommendations concerning the extent and character of the preparations for defense.

Directing officers to arrange their maps for reference and cautioning them to take notes of his orders, Colonel D then issued the following verbal orders at 1-05 P. M.:

Nothing new of the enemy.

Our division intrenches this afternoon on the general line of the Taneytown road.

The 1st Brigade, reinforced, is posted on the line St. Mary's Reformed Church—King crossroads and covers the occupation of the position.

The 3d Brigade is on our right; the 2d Division extends to the left of our brigade from Mrs. Buck's farmhouse, inclusive, to the north.

The artillery will support from the line of Plum Run.

This brigade occupies the section from the house 450 yards north of E. Weikart, exclusive.

The 5th Infantry occupies the left of the brigade line to a point 200 yards south of the barn on the Taneytown road, east of hill 592. The 6th Infantry, as brigade reserve, will be posted in Wheatfield, midway between A. Trostle and knoll 541. It will provide the necessary security in our front and will open up communications in our rear.

1-05 P. M.

This Regiment occupies the sector from the house 450 yards north of E. Weikart to a point 200 yards south of the barn east of hill 592.

Sections are assigned as follows:

The 1st Battalion and Machine Gun Company from the J. Ekenrodes farm road to the house 450 yards north of E. Weikart, exclusive. A strong supporting point will be organized on knoll 532, by J. Musser's farmhouse.

The 2d Battalion from the farm road, exclusive, to a point 200 yards south of the barn east of hill 592.

The 3d Battalion, as regimental reserve, will be posted in rear of knolls 561 and 572. Cover trenches will be constructed. An observation shelter for the regimental commander will be constructed on knoll 572.

The engineer company is assigned to duty with the 1st Battalion.

Standing trenches with overhead cover will be constructed. Tools collected from nearby farms and those from the Division Engineer Train and water containers will be divided equally among the three battalions.

Water for the troops will be taken from Plum Run and from wells and springs approved and placarded by sanitary inspectors. Dressing station on Plum Run, northwest of Little Round Top. Station for the slightly wounded on the Emmitsburg road west of M. Bushman.

Brigade headquarters on the north spur of Little Round Top. Messages to me at knoll 572. Flag communication.

Lieutenant Colonel M has been directed to march the Regiment at 1-30 P. M. to the north spur of Round Top. Rejoin your commands at that point and conduct them to the sections assigned. On arrival at the position, combat wagons will be at once emptied and returned to crossroads 580, where they will refill and park at the disposal of the brigade commander.

Colonel D then directed a staff officer to repeat from his notes the orders as given above. Necessary corrections were then made, and officers directed to rejoin their commands.

Situation XIII

(CAPTAIN WEEKS)

The 7th Infantry, 1st Battalion in front, arrives at a point just west of 527 hill at 2-00 P. M.

Required:

The actions and orders of the major, 1st Battalion, 7th Infantry, from the time he receives the regimental commander's order at 12-50 P. M. until his battalion is deployed.

The 4th Infantry arrives at the north spur of Little Round Top at 1-50 P. M., and is met by a battalion adjutant, who conducts the 1st Battalion to the J. Musser house, where it is halted by the major.

Required:

Orders of the major, 1st Battalion, 4th Infantry, for the deployment of his battalion.

(Time for solution, three hours)

1st Battalion, 7th Infantry

Solution

Upon receipt of the regimental commander's order at 12-50 P. M., the major, 1st Battalion, 7th Infantry, while awaiting the arrival of the troops, rides over the section allotted to his battalion; first proceeding with the major of the 2d Battalion along the road to E. Weikart. It was

arranged between these two officers that the 1st Battalion should extend its trenches about 75 yards south of the road along which they were riding. It was also agreed that, if necessary, the fire of at least a part of the right company, 1st Battalion, would be turned across the front of the 2d Battalion. The major of the 1st Battalion then proceeded along the road to the orchards north of E. Weikart, where he met the commander of the 1st Battalion, 4th Infantry. It was arranged between these two officers that fire would be brought to bear, if necessary, by a portion of the left company, 7th Infantry, on the slopes near J. Ekenrodes; and likewise fire from the 532 hill position would be directed into the ravine running southeast from Vincent spur. The major, 4th Infantry, was notified that the left of the 7th Infantry line would rest at the point where the Taneytown road crosses the small stream south of Vincent Spur.

The major, 1st Battalion, 7th Infantry, then rode back through the fields to the orchard west of E. Weikart, sending the adjutant ahead to conduct the battalion to that place. At 2-10 P. M., he issues the following order to his assembled captains:

Our division takes up a defensive position approximately along this, the Taneytown road. The 1st Brigade covers the front of the division and is on the far side of Rock Creek, the stream which you can see about a mile east of here. The 9th Infantry furnishes security detachments in our immediate front. The 2d Brigade is on our left and our 2d Battalion will be on our right. The regimental reserve is ordered to take station just west of that hill south of here.

This Battalion is assigned the section from this orchard, inclusive, to the small stream 500 yards north of here.

2-10 P. M.

Company A will construct a trench astride of this road, and will hold the sector from that 466 ridge, inclusive, to the Bushman house. Trenches will be so located that a part of the company's fire may be directed across the front of the 2d Battalion.

Company B will prolong the left of Company A at 50 yards interval, and will hold the sector from Bushman to a point midway between Bushman and the orchard in front of the left of the line.

Company C will occupy the nose in the vicinity of those orchards (400 yards north of E. Weikart) and will be responsible for the sector which extends from midway between Bushman and that orchard (900 yards in front of the line) to the orchard, inclusive. Trenches will be so arranged that a portion of the fire may be delivered along the front of the 4th Infantry battalion on our left. 1st Platoon, Machine Gun Company, will be located near the right of Company C's line.

Standing trenches with overhead cover and obstacles will be constructed, and positions connected by cover trenches.

Company D, as support, will send two platoons to collect mater-

ial for obstacles in front of the trenches. The remainder of the company will construct cover trenches, for the entire company, in those woods north of here. An observation trench for the battalion commander will be constructed near the support. A trench to communicate with Company C will be built.

Tools from the two engineer wagons assigned the battalion will be equally divided amongst the three companies on the firing line. The purchased tools will be used by the support. Tools on our combat wagons will be turned over to the 3d Battalion. Ammunition will be unloaded from the combat wagons in rear of Companies A, B, and C. The wagons will then carry out the instructions given them by the regimental adjutant.

The regimental aid station will be in this creek southwest of here.

I shall inspect the line chosen, beginning with Company A. Flag communication will be established with my position at the support.

1st Battalion, 4th Infantry

Solution

Orders, major, 1st Battalion, 4th Infantry, to assembled company commanders, including those of machine gun and engineer companies, at 2-10 P. M.:

Our division takes up a defensive position, approximately along the road, facing east. The 1st Brigade covers the front of the division and is on the east side of the stream, Rock Creek, about a mile from here. Immediate protection of our front will be provided by the 6th Infantry. The 3d Brigade intrenches the line from those orchards south of here. Our 2d Battalion will be next on our left. The 3d Battalion, as regimental reserve, takes post in rear of that (572) hill.

We hold the right of our brigade line and connect with the 3d Brigade.

Companies A and B and the Machine Gun Company, assisted by the engineers, under my orders will organize a strong supporting point on this knoll. Company A on the left will defend the sector from J. Ekenrodes to F. (H) Swisher. Company B on the right will cover from F. (H) Swisher to this (515—Diener) road, inclusive, and will be prepared to fire along the front of the 7th Infantry trenches on our right. Emplacements for two machine guns will be prepared in each company section.

Company C will construct a standing trench with overhead cover and obstacles on the nose south of here, between this position and the left of the 3d Brigade, and will be prepared to fire either along our front or to the southeast in the valley of that stream, as well as in the direction of that orchard (in front).

Company D, as support, will construct cover trenches southwest of the J. Musser house for itself and the engineers. An observation trench for the battalion commander will be prepared on this knoll (532 near J. Musser).

Tools from one engineer wagon will be assigned to Companies A and B and the engineer company. Tools in the combat wagon will be turned over to Company C, and those collected from nearby farms to the support. Ammunition will be unloaded in rear of the trench-

2-10 P. M.

es, and wagons will return to 580 crossroads, where they will refill and be at the disposal of the brigade commander.

The regimental aid station is located near the regimental reserve.

Troops will use water only from sources which have been approved by the surgeon.

I will be on this knoll (532).

Situation XIV

Company C, 4th Infantry

Required:

The orders (not commands) of the captain of Company C, 4th Infantry, for the deployment of his company, and the arrangements for the defense of his section.

(Time for solution, one hour)

Solution

The captain of Company C, leaving a detail to see that the tools allotted come forward on the combat wagon, marches his company along the road to the ridge in front of Vincent Spur; where he gives the following order to his entire company:

Our division takes up a defensive position, extending north and south along this road, to meet a hostile movement from the east.

Our battalion holds the southernmost section of the 2d Brigade line. On our right is the 3d Brigade. The 6th Infantry has security detachments in our front. Company D and later the engineers will be in support behind that orchard (515).

Our company, on the extreme right of our battalion, holds this spur.

Standing squad trenches at one yard interval will be constructed on the line which I shall designate. The squad trenches later will be connected. This rail fence furnishes material for overhead cover construction. Obstacles will be constructed later.

Tools from the combat wagon which comes here will be distributed equally along the line.

Regimental aid station is located near the regimental reserve, behind the last ridge which we crossed. Drinking water will be obtained only from the wells which have been approved by the surgeon.

My station will be with the 8th squad.

The captain then gave commands for deploying his company on the line, located the same, and started the digging. Ranges to prominent objects in front were measured by range finders and recorded. Sectors were assigned to

platoon commanders. Flag communication was opened with battalion headquarters and to the right with the nearest company of the 7th Infantry.

The Artillery Brigade—8-00 A. M. to 3-00 P. M.

(CAPTAIN SCOTT)

The division commander, at 8-00 A. M., left an aid to advise brigade and auxiliary commanders as to the situation, and went with his staff, and the artillery and engineer commanders, escorted by a platoon of cavalry, to reconnoiter the front assigned to his division. His route was via Greenmount and the Keckler farm, to the Taneytown road.

Upon hearing the message from the army commander and the order for the advance guard, General E (artillery) sent the following message, by agents, to the artillery regiments:

Regimental and battalion commanders report to the brigade commander with their reconnaissance parties. Lieutenant colonels take command of the regiments.

Upon their arrival, General E acquainted them with the situation, and directed that the colonels ride with him, the remainder of the party in rear of the headquarters party.

Maps were consulted, and it was seen that the line of hills 528—Round Top—592 was likely wholly to determine the location of the Blue artillery.

As they rode along, the situation was discussed and the decision reached that a hostile attack could scarcely begin today; that the hostile artillery was certain to be in superior strength; hence, the Blue artillery must play safe; that the enemy's knowledge of superior strength in all arms would make him aggressive, and inclined to force a decision with as little delay as possible; hence, the Blue artillery must be prepared to assist in the close defense of its infantry trenches.

Upon arrival at the east edge of the woods on the crest 528—527, the party halted, and the division commander stated that the line of infantry trenches would run from 100 to 300 yards in front of the woods, and trend

northeasterly, in the general direction of Powers Hill, which was visible.

General E summoned his artillery officers, dismounted, and walked out into the field north of the road. Here maps were laid out and oriented and a few minutes were devoted to study of the terrain to the east, locating and identifying roads, stream lines, and places. Then General E issued the following instructions:

The enemy is in superior force and may be expected in our front before night, though probably too late to make an attack today.

He has three corps and two cavalry divisions, and camped, last night, just east of the line Union Mills—Hanover, which is about 15 miles east of here.

Our division is to occupy a defensive position, extending from the south end of this wooded ridge to Powers Hill, that small wooded knoll about two miles to the northeast. The 2d Division extends our left to Barlow Knoll, about a mile north of Gettysburg. The Cavalry Division is to operate on its left. The 3d and 4th Divisions will clear the mountains today. Our advance guard of today is going to the east of Rock Creek by this road, and the one through Barlow, about two miles south of here, and will cover the preparation of this position.

The enemy is superior in artillery, probably two to one. He is also superior in infantry. It seems likely that he will attempt to force a quick decision. He is likely to use part of his artillery as counter batteries, and part as infantry batteries, right from the start. Our best chance is to avoid engaging his counter batteries, to attack his infantry batteries where possible, and to batter his infantry at every stage of the attack. These considerations demand safety, concealment, wide fields of fire, and alternative positions for the fire units. I do not believe these requirements can be met by any positions in front of this line of hills, or on them. The country behind must furnish them, and it must be thoroughly reconnoitered to a considerable depth. Dead spaces must be eliminated as far as possible, and every fire unit must be able to cover one or more portions of the infantry trenches; not only their foreground, but the trenches themselves, so that they may be made untenable to the enemy.

The 2d Artillery will reconnoiter the right half of the position to include Round Top. The 1st Artillery will reconnoiter the left half.

Leave communication parties here and at roadfork 515, near J. Musser.

Let me have your preliminary reports at E. Weikart's at 10-30 o'clock.

Proceed with your reconnaissance. I am going to join the division commander.

Discussion of the Artillery Situation from the Map

The Red forces are stronger than the Blues, even if the latter were concentrated. They have but a day's march to make to be in position to strike the Blue defensive line,

and the numerous roads leading thereto will enable them to use all their forces. In the same time, the Blues can bring up their 3d and 4th Divisions and the Cavalry Division.

Re-supply of ammunition, by the Chambersburg road, will be impossible for two days at least, until the 5th Division gets through with its trains. The Waynesboro turnpike is, of course, open and available for this purpose, as is the Western Maryland, and the Philadelphia and Reading railroads.

The opposing forces are, then, four infantry and one cavalry division of the Blues, against six infantry and two cavalry divisions of the Reds. The Red infantry divisions have each 50% more artillery than the Blue divisions, making their total force of artillery more than double that of the Blues. The corps artillery of the Reds will add further to this disparity of strength.

The Blue artillery must be so disposed as to lessen the disadvantage under which it must operate. It must be so disposed that it can combat the hostile artillery, if necessary,—not permitting the latter a free hand in attacking the Blue infantry; but on the other hand, be as little exposed to damage itself as possible, and able to combat the hostile infantry right up to the Blue trenches.

Hostile artillery positions in abundance can be had in the country east of Rock Creek; those most dangerous to the Blue position (1st Div.), being in the valley of White Run, the vicinity of Toppers, and east of the line of hills of which Wolf Hill is the center. In case of an enveloping attack from the south,—not at all unlikely,—the ridge east of Barlow offers advantageous positions.

Hills 528 and 527, the Round Tops, hill 592, and Powers Hill,—the whole ridge, in fact, will afford excellent observation stations for the Blue artillery, but not good battery positions. Their wooded and rugged tops would be difficult to occupy; and, because of their steep eastern slopes, the batteries would have to be placed close to the forward crests, in order to participate in the close defense of the trenches, and would be easily located and overwhelmed by the superior hostile artillery. All possible positions

to the east of these hills are more or less open to hostile observation, and batteries placed in them would soon be silenced.

It is necessary to look for positions in rear of those hills.

The more hilly and rugged the terrain, the more difficult it is, in general, to so locate the artillery units that concentration of fire on all parts of the field is possible. Each position must be carefully reconnoitered to determine just what area or areas, can be covered by fire from it; whether gun or howitzer fire, or both, can be used; whether suitable observation stations can be had, and the character of the approaches to the position.

With this data, the higher commander can decide which positions to occupy, which to prepare as alternative positions, which to eliminate from consideration. Unless there are conditions existing that outweigh its advantages, the usual procedure is to occupy those positions which enable the greatest concentration of fire on the most important sectors of the front.

It is necessary to determine the dead space created by the mask in the front of each position. In the field, this is done usually by measuring the angular height, mask-gun-target. This angular height is the elevation for the "least range," the trajectory of which will clear the mask. The difference between this "least range" and the distance from the gun to mask, is the "dead space." By the terms of General E's orders, the dead space must not extend beyond the line of infantry trenches. When the gun and target are on about the same level, the height of mask can be measured directly, in mils, and a glance at the B. C. ruler shows the range at which the trajectory will clear. If the target is above or below the gun, a correction is necessary. It is usually possible to estimate this, and an allowance of at least ten per cent. is made for safety.

With the map alone, a cross section may be made to scale, and the height of the mask above the line, gun-target, determined. If this is less than the ordinate for the range given in the table of trajectories (for the distance to mask), the trajectory will not clear. As before, if the gun and

target are at the same level, the height of the mask above them, in feet, is the ordinate at the distance gun-mask of the least range, the trajectory of which will clear the mask.

If the table of ordinates is not at hand, and a B. C. ruler, or range table is, the angular height of the mask above the line, gun-target, may be determined from the elevations given on the map, and compared with the angle of departure for the range.

For example: Can a 3-inch gun on hill 561 (Devils Den), fire on hill 466? Range to target, 2,200 yards. Height of gun above target, 95 feet, or 32 yards. Thirty-two divided by 2.2 is 15 mils, the angular height of the gun above the target. Distance from gun to mask, 600 yards. Height of mask above gun, 80 feet, or 27 yards. Twenty-seven divided by .6 is 45 mils, the angular height of the mask above the gun. Forty-five plus 15 is 60 mils, just the angle of departure for the given range. Allowing a factor of safety of 10%, the least range is 2,400 yards. (Percin's and K formulas.)

Fire could be safely delivered on the east edge of the field in which the figures 466 appear, the range having been measured to the middle figure. Trees are taken as 40 feet high.

The areas possible to reach with artillery fire, from a given position, may usually be determined with sufficient accuracy by running two or three trial lines in the manner described.

The determination of such data on the ground is described under "Reconnaissance by Captain D."

A convenient method for determining the distance from a mask to a gun position from which projectiles will clear the former, is as follows:

Determine the height of the mask in yards, above the line, gun-target. Multiply this by four if the range is below 3,000 yards; by three, if it is above 3,000 yards. Divide the result by the hundreds of yards from mask to target. The quotient is the distance in yards from mask to gun.

A rule of thumb in use in the German service is:

Place howitzers a distance in rear of the crest equal to three to four times the height of the crest. Place guns 60 meters in rear of the crest for every meter of cover it affords, for ranges of 1,000 to 2,000 meters; 220 meters for ranges of 2,000 to 3,000 meters; 10 meters for ranges above 3,000 meters. Under 1,000 meters place them more than 60 meters in rear.

A formula useful at times for computing the angle of departure is $\mp 5K (K+3)$.

Angle of departure $= 5K (K+3)$, in which K is the thousands of yards in range. The angle of departure is in mils.

Percins formula, $4y=x (R-x)$, is a good one. In it, y is the height of mask in yards, and $R-x$ the distance from mask to target in hundreds of yards.

With such a map as the 3-inch, assignments of areas of operation, of sectors of observation, of battery positions, of routes of approach, etc., can be made quite fully. On the ground, the brigade commander makes a general assignment of areas of operation, either from a map or during a preliminary personal reconnaissance. The regimental commanders divide the work of reconnoitering their areas between their battalion commanders; usually, during their own personal reconnaissance.

Based on his own observations, and the verbal or written reports of his subordinates, the brigade commander makes a report and recommendations for the use of the artillery, to the division commander.

The battalion commanders make more detailed reconnaissance, and assign batteries to positions. The battery commanders make accurate reconnaissance of their positions and fields of fire, and ensure their guns being able to do all that is expected of them.

In the occupation of the position by Battery F, the battery commander, relying wholly on the major's reconnaissance, established his battery in a difficult position, with much labor, only to find that it could not do all that the major expected it would be able to do. He could then do no more than report it.

Action of Colonel K, 2d L. A.

Colonel K directed as follows:

The howitzers are likely to find most suitable places in the north half of this sector. Major N (Comdr. How. Bn.), reconnoiter the part of our sector north of an east and west line through this point.

Captain D (Regt. Adj.), reconnoiter south of that line. Designate two of the scouts to accompany me.

I will ride over the whole area myself, and meet you at E. Weikart's at 10-15 A. M.

Proceed with your reconnaissance.

Leave two men here as a communication post.

Reconnaissance by Captain D

Captain D, with his remaining four scouts, rode south along the edge of hill 528, where he noted the possibilities of that hill as a position for observation of fire, and measured the slope toward 471, 394W, the bend in Rock Creek southwest of 418, and the nose between that stream and Plum Run; noting the appearance of the foreground as he went, and pausing when south of 528, to measure the slope to the road Hoffman—432.

On the edge of Plum Run valley, he turned north through the woods, came out on the spur running northwest from hill 528, and followed it to the road.

Here he dismounted, and oriented his map on the ground. With his B. C. ruler, he measured the height, in mils, to the top of trees on hill 528, 50 mils. Making an allowance for the slopes toward Rock Creek, he decided that a gun battery in this position would only be able to fire beyond the line, mouth of Plum Run—hill 471.

A similar observation on the trees on hill 527 showed that it could be cleared at a range of 1,700 yards, or a little beyond E. Weikart's. This might, then, be a useful position from which to bring a flanking fire on the foreground of the infantry lines north of that point. He noted that the spur would accommodate two batteries in normal formation, or three with the flank caissons left out of the line. He noted this as position (a).

He noted that just northwest of the spur was an open flat, large enough for a battalion in echelon or line, suitable for guns firing due east or northeast at ranges greater than

2,000 yards, or for howitzers firing to front or flank, at all ranges down to that of the infantry trenches. This he recorded as position (b).

About 400 yards to the north, he noted a long east and west spur that seemed to offer a firing position for a battalion, firing south. He accordingly rode over to it, and determined that guns on it could clear hill 528 at 2,000 yards range. Making an allowance for the slope to 432 (south of Willow Grove S. H.), he decided that the fire could reach that corner. West of 528, the mask of hill and trees falls away; and he decided that fire from the position could reach all points along the line 540—432. He noted this as position (c).

No other positions east of Plum Run offer less dead space in front of the lines, and Captain D was forced to the conclusion that no part of the foreground, south of E. Weikart's, could be covered by gunfire from within that area.

He rode next to the fence corner just south of hill 547, and made observations on 528, 527, and the saddle between, finding that, with an allowance of 10%, they could be cleared at an average range of 1,400 yards, about that of the trenches. Gun fire from this position, then, could sweep their immediate foreground, and answer the requirements laid down by General E. He noted this as position (d).

He next rode to the grove west of Plum Run and north of the road, and determined that guns in it could sweep the front from the roadfork just south of E. Weikart's to the north, and was, therefore, better for the purpose than the position (a).

Captain D then rode to the road corner 540, and noted that, from anywhere west of the ridge of which that point is the northern end, a flanking fire could be delivered against an attack upon the right flank of the position from the direction of Barlow; and that artillery in Plum Run valley could reach such a position via the little valley parallel to, and north of road 469—540, safe from all but aerial observation.

Captain D noted that, with the exception of (d), the

occupation of positions would be open to hostile aerial observers, unless it be done at night.

He decided to recommend that positions (a) and (b) be occupied by daylight, and intrenched; positions (d) and (e), (bn. less 1 btry. and 1 btry. respectively), be prepared for occupation, and occupied after dark; the intrenchments, etc. in (a) and (c) to be left undisturbed.

Captain D noted that all these positions were visible from Round Top, and decided that distant fire to the front, or left front, could be best directed from there; that to the flank, from 528 and 540; while in close defense a number of observation stations would be necessary along the east edge of the woods, 528—527.

Captain D then rode rapidly to E. Weikart's to report, following up the east branch of Plum Run, with a view to learning its value as a possible route to the front of the position.

In the northern part of the position, the division commander decided not to include Powers Hill in the intrenched line, but to have the latter follow the general line of the Taneytown road. As this would affect the placing of the artillery, General E sent a message to both regimental commanders advising them.

At 9-30 A. M., the division commander sent orders to the column directing the 2d Brigade to assemble at cross-roads 580; the artillery, ambulance companies, and ammunition train, near the J. Biesecker farm; the 3d Brigade, Engineers, and Engineer train, near J. A. Wolfe. The division was at rest until 1-30 P. M.; orders to be issued east of Round Top at 11-00 A. M.

General E's Report and Recommendation

When the regimental commanders reported to him at 10-30 A. M., at E. Weikart's, General E went over the whole situation with them, and formulated his own report and recommendation, submitting it to the division commander.

The howitzer battalion: Position on Plum Run west of Round Top, one battery due west of hill 527; to fire on all parts of the front and right flank.

One gun battalion west of Plum Run, and south of hill 547.

Distant fire on all parts of the front and right flank; for close defense, the same south of Round Top.

One gun battalion (less one battery) near hill 517. Distant fire on all parts of the front and right flank; for close defense, the sectors, hill 466—G. Bushman, south of the line hill 517—hill 527, and north of the line 517—Geo. Spangler.

One gun battery west of hill 544. Distant fire on any part of the front; for close defense, the sectors road corner 450—E. Weikart, and north of the line 544—J. Musser.

One gun battalion in the vicinity of A. Trostle. Sector J. Musser—Wolfe Hill.

Distributing stations at roadfork 562 (near J. A. Wolfe), and roadfork 580 (near the Peach Orchard).

The artillery to remain for the present under the control of division headquarters; that is, of the artillery commander.

After some discussion, this report was approved by the division commander. Copies were made by artillery regimental commanders.

Orders of the Artillery Commander

General E then directed as follows:

Our Brigade, except the battalion with the advance guard, has been directed to assemble near the J. Biesecker farm. The division is to rest until 1-30 P. M.

The 2d Artillery will occupy positions in the right half of the position, the 1st Artillery in the left half, in accordance with the copy you have of my report.

The order to rest is not to be construed as limiting necessary reconnaissance; you will require that to be pushed to completion, so that, at 1-30 P. M., the batteries may be marched direct to their positions, if so ordered, ready for immediate action.

You will also direct a reconnaissance to the front, as far as the dispositions of our covering forces will admit. I shall try to have the area south of the 450—393W—546 road reconnoitered by the advance guard battalion.

Lieutenant Y (aid). Ride to the advance guard, give my compliments to General B, and explain to him what I wish Major K to do. If he agrees, explain the situation to Major K, and direct him to have the country south of the road 450—393W—546 reconnoitered for possible hostile artillery positions.

Action and Orders of Major N, 1st L. A., After 1-45 P. M.

About 1-00 P. M., orders were received by Lieutenant Colonel P, 1st L. A., to send the 2d Battalion at 1-30 P. M. to J. Rose, where its commander would meet it. The colonel had ordered out only the battery reconnaissance officers, and had sent them on reconnaissance to the front; the battalion commanders had made the reconnaissance of positions.

The battalion commander, Major N, met the battalion

at J. Rose's at 1-45 P. M., and led it along the lane into the woods to the east, where he had it form up roughly in line of section columns at closed intervals, and ordered, *Dis-mount and rest.*

He then assembled the officers (mounted), and rode at their head through the woods to hill 544. Here all dis-mounted, under cover of the woods, maps were oriented, and the major explained the whole situation, as he knew it, requiring the officers to make notes, and added :

Battery F occupies this position; sector of observation for the present, Littles Run—Powers Hill. Preparation will also be made for fire over the saddle between the Round Tops.

The other batteries are to occupy positions just west of hill 517, about 800 yards southwest of here. They are to prepare for distant fire on any part of the front or right flank, and for close defense on the front to the north of Little Round Top, between the Round Tops, and south of the line 517 to 527.

Combat trains remain where they now are.

Positions will be occupied without exposure to aerial observation, will be carefully screened, and will be intrenched.

Battalion and regimental stations, as well as battery commander's stations, are to be on Little Round Top. All will be intrenched.

The battalion reel cart will lay a direct wire for each battery commander, connecting him with his battery; besides, a single line from my station to the battery commanders and the combat train. Battery commanders will also lay buzzer wire to their batteries.

If auxiliary stations are desirable, consult with me.

We will ride to the position to be taken by the other batteries.

Major N then led his officers back over the route by which they had come to the batteries; thence south along the wood road to the north edge of the field 517. Here the party reoriented, and the Major explained that batteries D and E were to occupy the edge of the woods west of 517, and told the three battery commanders to proceed with the occupation of their positions, and then join him on Little Round Top.

* * * * *

Occupation of its Position by Battery F

Captain F rejoined his battery and directed the lieutenant in command of the combat train to hold it there, sending all his cannoneers, except one per carriage, to join the firing battery. This done, he put the firing battery in march, leading it in section column to just in rear of the

line to be occupied. The woods were too dense to permit of anything like a normal formation; so he ordered up all cannoneers, with axes, and, with the assistance of his lieutenants, the place where each gun was to stand was selected; and a space, large enough to accommodate it and the caisson, and for the teams to haul them in, cleared by axmen. Then each chief of section was directed to conduct his piece into position, unlimber it, send the limber to the rear, and then bring up its caisson. The ammunition in the caisson and its limber was piled near the gun, and the caissons were ordered to accompany the limbers to the position of the combat train. The 5th section caissons were similarly unloaded at the guns and sent back.

The gun positions were close to the edge of the timber to minimize the danger from falling trees, but within the brush to escape detection. A lone tree on Little Round Top was designated as an aiming point, and a lane was cut through the brush, from each gun, to enable the gunner to see it.

While this was going on, the signal men ran a line of buzzer wire to Little Round Top, there to await the selection of the battery commander's station.

Captain F directed a cover pit for the ammunition to be dug beside each gun, to be enlarged as rapidly as possible in order to furnish cover for the whole detachment.

Having seen the work started, and that the lieutenants understood what was wanted, Captain F left the Executive Officer in charge, mounted his horse and rode to Little Round Top, dismounted in rear of its crest, and joined the battalion commander.

After consultation with the latter, he selected a place for his own station, whence a good view could be had of the main sector he was to observe. No place could be found allowing observation of both sectors, nor could a suitable one be found from which both sector and battery could be seen.

He ordered up a corporal and six men with shovels, picks, and axes, and directed the digging of a narrow standing trench, about perpendicular to a line to G. Gilbert's, and

well hidden among bushes. The earth was wasted among the bushes. Two six-inch logs laid four feet apart across its center, with brush and earth on top, made a shrapnel proof cover. The open ends gave ingress. Undercutting the bushes in front gave an unobstructed view of the sector of observation.

While this construction was going on, Captain F had his B. C. telescope set up some distance away, under the shadow of a tree where it would not attract aerial observation, but whence the battery position, the aiming point, and the sector of observation could be seen, and proceeded to get firing data for a number of places in his sector, taking them in the following order: H. Swisher, Geo. Spangler, Powers Hill; M. Fisel, Swartz Estate, W. Conover, road corner northwest of G. Gilbert, Black, and hill 592; road corner 479, St. Mary's Church, road corner 425, road corner southeast of 537; Topper's, 525, and the crest between the Low Dutch Road and White Run.

The Executive Officer, meantime, reported that the guns could clear their mask at ranges varying from 1,500 to 2,000 yards; also, that they could clear the saddle between the Round Tops, at ranges permitting fire on the foreground of the trenches from a point east of hill 527, to one east of hill 528.

Captain F again consulted with the battalion commander, and reported that an auxiliary station south of Little Round Top would be necessary to enable him to fire on the south sector; that, in the north sector, there would be a dead space in front of the trenches of from 200 to 1,000 yards.

Reconnaissance to the front by Lieutenant H

At 12-30 P. M., Lieutenant H, with two scouts, reported to his regimental commander at E. Weikart's. Captain D, the adjutant, oriented him as to the situation, and as to localities, streams, routes, positions of advance troops, etc., and directed him as follows:

You will reconnoiter from the enemy's point of view, and report upon, the area between the road 450—393W—546, and Littles

Run, as far east as the road 549—Two Taverns.

Lieutenant I is to reconnoiter the country north of you, the 2d Battalion that to the south of you.

Proceed via 393W to the further limit of your area and work back.

Mark on your map all possible positions for hostile artillery and routes thereto.

You have ample time for the reconnaissance, so make it thorough.

Lieutenant H started for Two Taverns at a six-mile gait (walk and trot). At 1-20 P. M., he arrived at 491 crossroad, where he found the headquarters of the 1st Infantry, and reported himself and his business to the commanding officer before proceeding. The latter informed him that he would find a support at crossroads 546, the patrols of which were operating for a mile further to the front.

At 1-30 P. M., he reported to the support commander at 546, told him his mission, inquired the location and direction of outguards and patrols, and asked that they be notified of his presence and duty.

The support commander agreed to do this, and informed Lieutenant H that hostile cavalry patrols were believed to be in hiding about the country, that two had been seen; and that the Blue cavalry had earlier in the day chased about half a troop of Red cavalry out of Germantown. Strong standing patrols from the support would be found along the road that runs south from Two Taverns.

Lieutenant H devoted a few minutes to a study of the situation. Crossroad 546 was defiladed against Round Top, the most prominent observation point in the Blue position, by the trees 600 yards farther west, but was visible to the saddle between the Round Tops. It looked as though the slopes towards Topper's would be defiladed also. He rode to the edge of the woods toward 520, and noted that the long slopes to east and west must be open to view from Round Top. An enemy, then, could not enter his area unobserved, anywhere west of the woods about 1,000 yards to the southeast. He followed the worm fence to the corner of these woods, and found that the woods on Round Top were in view over the trees at 546. A scout, sent to the head of the stream that passes Topper, reported himself in view of Round Top all the way.

Lieutenant H then rode to Reaver's, stopping once or twice in low places to assure himself that he was not defiladed against Round Top. An enemy, then, could not advance unobserved from the 520—549 road into the valley of Littles Run.

At Reaver's he noted that the road Two Taverns—566 was defiladed against Round Top. Defilade against that point was what an advancing enemy would seek. It remained to be seen if the enemy using that road could advance still defiladed from it. He accordingly followed the road to Two Taverns, finding that place and the roads about, in full view of Round Top. The scattered trees along Littles Run and its branches, would afford only partial concealment to an advancing force. But no force of any size would take the trouble to leave the road at such a distance from an enemy. The slopes north of the Run were apparently quite open to Round Top.

An enemy, then, entering Lieutenant H's area, from any direction, would be exposed to observation from at least one point in the Blue position.

It remained to determine what an enemy might do after entering that area.

Lieutenant H followed the road toward 546 to the large orchard. The west edge of the orchard and the stream line to the south, he marked as a position suitable for a battalion of artillery. Its covering crest, 200 yards to the west, was in full view of Round Top, as was all the ground about it. The position could not be occupied unobserved, unless by night. It was beyond the range of any Blue artillery, but within range, 5,500-6,000 yards, of the Blue trenches. Observation on the latter could be had from some point far to the front.

Lieutenant H noted carefully the limits within which Red guns would have to be placed to utilize the position, for there was no reason to suppose that heavy artillery would not be sent to assist the division; and hostile artillery, in such a limited position, might be easily silenced by it.

About 400 yards west of this crest, he found his view of Round Top cut off by the trees along the stream running

north past Topper. He directed a scout to ride along the east side of the stream, just high enough up the east slope to see the summit of Round Top over the trees, noting from time to time his distance from the stream. Lieutenant H rode on and, about 100 yards short of 546, and for a short distance, found himself in view of Round Top. One hundred and fifty yards west of 546, he turned north on the road to Topper, and beginning at the worm fence on the left, found himself for about 100 yards in view of Round Top; when he reached the worm fence and woods on the right of the road, Round Top was hidden by the woods to the west.

Two hundred yards further north, Round Top was again in sight, and remained so till he reached Topper, though the road he was on was not visible. It marked, practically, the line of mounted defilade against Round Top.

The ravine northwest of Topper and the valley of the stream through Topper, were both defiladed against Round Top, down to Littles Run. The valley of the latter, to the west, was defiladed by the trees east of 426W.

A regiment of artillery could be accommodated in the area delimited by Lieutenant H and the scout, and the valley of Littles Run offered a hidden route of advance further to the front. It would be about 4,000 yards from the Blue infantry and 5,500 yards from the Blue artillery. It could enter the area from the direction of 563 with little exposure, even to view. After entering it, the area was so large that the artillery would be difficult to locate.

Lieutenant H went over this area very carefully, noting every possible battery position and plotting it on his map, trying to imagine just how he would use the ground if he were the enemy.

A ride around the woods west of the road 491—426W, convinced him that an enemy would hardly care to advance with artillery west of the crest between the above road and the Topper road; he would not only be exposed in doing so, but was likely to get caught in march formation, either on the slopes or at the foot. But a battery might be placed in the western edge of each of the groves east of the road. He then went to Littles Run, and followed that stream down, reaching the road running south from J. Fostle with-

out exposure to Round Top except for a short distance southeast of M. Fiscel. This, then, marked a line of advance from the Topper position to the line M. Fiscel—J. Schwartz, 1,500 yards nearer the Blue position.

He noted that the orchard at M. Fiscel could be occupied unobserved; and noted it, too, as a battalion position. Though outside his area, it would have to be occupied via his area, hence he felt that he should note it. A similar position, with some advantages over the orchard position, he noted in the ravine to the northeast of it.

He next examined the terrain about J. Schwartz, finding good positions for several batteries; positions that might not be deemed as of high class in the early stages of an engagement, but that would be deemed excellent for infantry batteries to occupy later, under cover of the fire of counter batteries.

Lieutenant H next crossed Rock Creek by the bridge at 393W, and followed up its western bank to the mouth of the small stream flowing into it from J. Bushman. He noted the extent and location of all the shallow places where infantry might cross, the space available for massing troops at each, and the amount and character of cover available.

He next rode southwest across hill 471 to the woods on its southwest slope, and south to the line 418-450 road, delimiting the defilade afforded by the woods. Arriving at the road, he went to headquarters to report.

DIVISION CAMP

(CAPTAIN FISKE)

Situation XV

Division Headquarters to 6-30 P. M.

Shortly after 10-00 A. M., the 1st Brigade began to encounter the enemy's mounted patrols. Thereafter, the hostile reconnaissance grew continually more persistent and was supported by larger bodies; by 5-30 P. M., in the face of strong forces of all arms, the reenforced 1st Brigade has safely withdrawn to the west side of Rock Creek, the 1st Infantry via Powers Hill, the remainder south of Willow Grove S. H. At 6-00 P. M., the brigade commander reported the bulk of his command on the line Hoffman—Ballinger, with detachments holding the Rock Creek crossings west of Barlow and Mt. Joy Church. He also reported his ambulances full of wounded. The 1st Infantry was marching west by knoll 592. The 1st Cavalry, at 5-00 P. M., reported its position one half mile west of Myers Mill, west of Harney. Strong hostile cavalry was then about Harney.

By 6-00 P. M., the advanced troops of the 2d Division have also been driven west of Rock Creek.

The intrenching of the 2d and 3d Brigades will not be completed before 9-00 P. M. Each brigade has small security detachments along Rock Creek. The enemy has as yet (6-00 P. M.) made no serious attempts to cross.

Passable wagon trails have been cut as follows: One connecting the farm road east of Vincent Spur with the one crossing Plum Run east of M. Bushman; one along the stream south of Round Top to its mouth, and thence west to the road bend 400 yards north of crossroads 540.

The farm road southwest of J. A. Wolfe has been connected with the one ending 500 yards west of the nearby knoll 522. A wagon trail also connects the farm road at J. Biesecker with the Emmitsburg road due east thereof. The corresponding crossings of Willoughby Run have been put in good condition.

Field trains were refilled in Emmitsburg last night.

All supply trains are full. (Sketch 2 shows the division—less reserve and cavalry, at 6-00 P. M.)

At 5-00 P. M., the following orders were received from army headquarters:

1st Cavalry Division camps tonight north of PLAINVIEW; 3d Division, GOLDENVILLE; 4th, MUMMASBURG; 5th, MCKNIGHTSTOWN.

Refilling point for 1st Division, MARSHALL on W. M. R. R.; for 2d Division, SEVEN STARS.

A drizzling rain is falling; temperature about 45 degrees.

Required:

Complete orders, commander, 1st Division, for the night, whether issued before or after 6-00 P. M.

(Time for solution, three hours)

Solution

Orders, commander, 1st Division:

1st Div.,
ROUND TOP,
17 March, 15, 5-10 P. M.

Lt. Col. K (Comdr. Tns.):

5-10 P. M.

Division camps. Send field trains 2d Brig. to crossroads 580. Artillery (less 1st Bn. 1st L. A.), Signal Troops and Engineers to EMMITSBURG road east of J. BIESECKER farm, 3d Brig. to J. A. WOLFE, reenforced 1st Brigade and 1st Cavalry to GREENMOUNT. Release 2d Am. Co. Except as detached, trains camp present location. Orders, ROUND TOP, 6-30 P. M.

By command, Maj. Gen. A:
X,
C. of S.

By messenger.

1st Div.,
ROUND TOP,
17 March, 15, 5-20 P. M.

Gen. E. (Artillery):

5-20 A. M.

2d Am. Co., at your disposal. Refilling point MARSHALL on W. M. R. R. Route your wagons by SCOTT—roadfork 564. Expedite refilling ammunition train.

By command, Maj. Gen. A:
X,
C. of S.

By messenger.

1st Div.,
ROUND TOP,
17 March, 15, 5-30 P. M.

Col. F (1st Cav.):

5-30 P. M.

1st Brig. camps at GREENMOUNT; secures from PLUM RUN to MARSH CREEK. If enemy compels your withdrawal from present po-

sition, fall back to vicinity knoll 604, 1½ miles southeast of FAIRPLAY. Destroy MONOCACY bridges at MYERS MILL and southeast of BOLINGER S. H. Your field trains will be sent to GREENMOUNT, where you can also obtain ammunition. Send your wounded to camp of trains 1 mile north of MCGREARY S. H.

By command, Maj. Gen. A:

X,
C. of S.

By messenger patrol.

1st Div.,
ROUND TOP,
17 March, 15, 5-45 P. M.

Gen. B (Comdg. 1st Brig.):

Your detachment will camp at GREENMOUNT.

Provide security from WILLOW GROVE S. H. to MARSH CREEK. 5-45 P. M.
Connect with 3d Brig. on PLUM RUN. Destroy ROCK CREEK bridges south of PLUM RUN. 1st Cav., at 5-00 P. M., was west of HARNEY. If compelled to, it will withdraw to vicinity of knoll 604, 1½ miles southeast of FAIRPLAY. Orders at ROUND TOP at 6-30 P. M.

By command, Maj. Gen. A:

X,
C. of S.

By messenger.

1st Div.,
ROUND TOP,
17 March, 15, 6-30 P. M.

Lt. Col. K:

Field trains will be at your camp by 4-00 A. M. Refill at once. Refilling point for Division at MARSHALL on W. M. R. R. Empties supply train will be held till 6-00 A. M. for transport wounded to MARSHALL. 6-30 P. M.

By command, Maj. Gen. A:

X,
C. of S.

To representatives detailed to receive orders.

1st Div.,
ROUND TOP,
17 March, 15, 6-30 P. M.

Lt. Col. M. D.:

Empties supply train will be available at camp of trains until 6-00 A. M. for transport wounded to MARSHALL on W. M. R. R. 6-30 P. M.

By command, Maj. Gen. A:

X,
C. of S.

Handed to Lt. Col.

1st Div.,
ROUND TOP,
17 March, 15, 6-30 P. M.

Field Orders,

No. 6
Gettysburg 3"

1. Strong hostile forces of all arms have advanced to the vicinity of ROCK CREEK, over the front of the 1st and 2d Divisions.

2. This Division will camp for the night.

3. (a) 2d Brig., along PLUM RUN, northwest of LITTLE ROUND TOP. 6-30 P. M.

Art. Brig. (less 1 Bn.) west of ROUND TOP. Pieces will be left in position.

3d Brig. along PLUM RUN, west of knolls 527 and 528.

Reenforced 1st Brig., about GREENMOUNT.

Eng. and Sig. Bns. with the Art.

(b) Security will be furnished along ROCK CREEK: by the 2d Brig. from MCALLISTER HILL, connecting with the 2d Division, to the stream south of F. (H). SWISHER farmhouse; by the 3d Brig., from that stream to PLUM RUN near WILLOW GROVE S. H.; by the 1st Brig., from PLUM RUN near WILLOW GROVE S. H. to MARSH CREEK near road junction 401. The 1st Brig. will destroy all bridges over ROCK CREEK in its sector.

1st Cav. will destroy all bridges at MYERS MILL and to the south.

(c) Sig. Troops will connect VAUGHN farmhouse with ROUND TOP and GREENMOUNT.

(x) The work of intrenching will be pushed to completion. Strong detachments will then be left in the trenches for the night.

No animals will be watered from PLUM RUN north of the 540-469 road.

4. Field trains will join troops. Those of the 2d Brig. are at crossroads 580, of Artillery (less 1 bn.), Eng. and Sig. Bns. on EMMITSBURG road east of J. BIESECKER, of 3d Brig. at J. A. WOLFE, of reenforced 1st Brig. and 1st Cav. at GREENMOUNT.

Field trains will be returned to camp of trains $\frac{1}{2}$ mile west of J. SACHS farmhouse, by 4-00 A. M. tomorrow.

5. Division Hq. at VAUGHN farmhouse, on EMMITSBURG road.

A,
Maj. Gen.

Copies to officers detailed to receive.

Situation XVI

3d Brigade

Required:

Orders, commander, 3d Brigade.

Solution

Orders, commander, 3d Brigade:

Verbally, at 7-00 P. M., on road between knolls 527 and 528, to assembled colonels:

The enemy has advanced in strength to the vicinity of Rock Creek over the whole front of the 1st and 2d Divisions.

The 1st Brigade has withdrawn to Greenmount, and secures from Willow Grove S. H. to the south. The 2d Brigade secures from the stream south of F. (H.) Swisher to the north.

This Brigade will camp for the night:

The 7th Infantry, south of the stream heading west of E. Weikart, and west of knoll 527.

The 8th Infantry, east of Plum Run, north of the 540—469 road.

The 9th Infantry, west of Plum Run, south of the 540—469 road.

The intrenching will be pushed to completion. When the 7th and 8th regiments withdraw to camp, each will leave the equivalents

7-00 P. M.

of not less than two companies in its trenches.

Fires are permitted in the camping areas. All animals will be watered in Plum Run south of knoll 528.

The 9th Infantry will outpost the line F. (H.) Swisher, exclusive, Diener—roadfork 418—stream junction north of Willow Grove S. H., with not less than six companies. The outpost will withdraw if seriously attacked.

Field trains are at J. A. Wolfe at the disposal of regimental commanders. At 2-00 A. M. those of the 7th Infantry will be on the engineer's wagon trail facing west, head near the 540—J. A. Wolfe road. Those of the 9th and 8th Infantry, in the order named, will be in column on the 540—469 road, head at 540.

Division headquarters tonight at Vaughn farmhouse.

Brigade headquarters at farmhouse northwest of knoll 528.

Verbally, by brigade adjutant to Captain Q (Q. M. 9th Inf.) :

The field trains of the Brigade are ordered assembled at 2-00 A. M.; the 7th Infantry on the wagon trail facing west, head near 540—J. A. Wolfe road; 9th and 8th Infantry, in the order named, in column on the 540—469 road, head at 540. The brigade commander directs that you march them via J. A. Wolfe—knoll 552—Trastle—McGreary S. H. to knoll 504 south of Marsh Creek, and report them to the commander, trains, by 4-00 A. M.

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